



CHEM 1410.004 and 204 – General Chemistry I for Science Majors

Fall 2026

Instructor Contact

Name: Dr. Sophie Harris

Office Location: CHEM 164

Drop-in help or Office Hours: Mo: 2:30 – 3:30 PM, We: 8:30 – 9:30 am, in CHEM 164 and by appointment (please email for appointment)

Email: Sophia.Harris@unt.edu

Class Times and Rooms

- Lecture (1410.004): MoWeFr 11:15 AM – 12:05 PM Room: CHEM 109
- Recitation (1410.204): Mo 1:25 PM – 2:15 PM Room: CHEM 109

Outside Class Communication Expectations:

Coming to my drop-in help or office hours is very effective in getting immediate feedback. Otherwise, it is best to reach me through email (Sophia.Harris@unt.edu) which you can also access through Canvas with any questions, comments, or concerns.

Course Description

This is the first of a two-semester sequence of general chemistry for science majors, intended to introduce you to the foundations of chemistry. The material is presented in what's referred to as an atoms-first approach, which means that we begin by talking about the parts of the atom, then how they join together to create molecules, then what kind of reactions the molecules can go through. It is a gradual building up of the information that you need to understand the next topic, narrated in as coherent a story as possible. We approach problems in both a qualitative and quantitative manner, so math skills (basic arithmetic, algebra, and calculator skills) are a must!

Course Prerequisites or Other Restrictions

Pre-reqs: C or better in MATH 1100, B or better in CHEM 1980, or equivalent course

Co-Req: - CHEM 1410.204 (Recitation). This course is **MANDATORY!** (REF: UNT catalog)

- While it is not required, you are strongly encouraged to enroll in CHEM 1430 (General Chemistry I lab). But if you are not required to take the lab or you otherwise cannot do so this semester, you will be just fine.
- CHEM 1430 is the laboratory course, and it is a separate course from CHEM 1410. Students will receive separate grades for the two courses. Dropping either course does NOT automatically drop you from the other course. For lab classes, be aware that you should be registered for both a lab lecture course (CHEM 1430.00x) and a lab (CHEM 1430.3xx).

Course Objectives

At the completion of the course, students should be able to:

1. Apply dimensional analysis to solve problems.

2. Demonstrate an understanding of the mole concept and apply moles in calculations relating quantities of substances to each other in reactions.
3. Explain the concept of quantization as it applies to modern atomic theory.
4. Investigate the quantum mechanical model of the atom, write and interpret quantum numbers for the electrons in an atom. Write electronic configurations and predict chemical properties.
5. Differentiate between ionic and molecular compounds, write Lewis formulas, and account for differences in properties.
6. Describe the fundamental particles of matter; relate basic laws and theories to their behavior, utilize a systematic method of naming compounds and polyatomic ions.
7. Utilize the VSEPR theory to predict the shapes of molecules, account for the effect of lone electron pairs and multiple bonds.
8. Describe atomic orbitals using hybridization and distinguish between sigma and pi bonds.
9. Write and balance chemical equations and perform stoichiometric calculations. Classify the different types of reactions.
10. Employ bonding theories to identify the intermolecular forces present in pure substances and in mixtures.
11. Explain the relationship between heat, work, internal energy, and enthalpy changes to solve problems involving thermochemical concepts.
12. Demonstrate the understanding of the gas laws and apply them to solve problems. Solve problems using the ideal gas law.

Required Material

ELECTRONIC TEXTBOOK:



Chemistry, Atoms First, 2nd Ed.

- Link to textbook:
<https://openstax.org/details/books/chemistry-atoms-first-2e>
- If you bought a textbook, I encourage you to return it for a refund! You only need the e-book above.

CALCULATOR:

Preferred: TI-30 series, or any equivalent Scientific Calculator.

- Bring your calculator to every class, quiz, and exam.
- *Practice* using your calculator!
- If you already have a TI-80 series calculator (graphing calculator), you can still use that.

HOMEWORK/QUIZZES/EXAMS:

All quizzes will be accessed directly in Canvas. Homework and Exams will be on paper. Recitation groupwork assignments will be taken on paper in class.

CLASSROOM BEHAVIOR

Classes will begin/end as noted at the beginning of the syllabus; if you are late to class or anticipate having to leave early, please sit as close to the door as possible to minimize the disruption to the rest of the class. Disruptive behavior (such as talking, giggling, snoring, talking on a cell phone, playing on the Internet, watching YouTube or

other social media videos, texting, etc.) will not be tolerated. Cell phones should be silenced during class. A student engaged in disruptive behavior can be asked to leave class immediately and can be suspended from class for a period of up to a week for the first offense, and longer if the behavior persists. The Code of Student Conduct can be found at deanofstudents.unt.edu/conduct.

No headphones, EarPods, earbuds, Air pods, etc. (Bluetooth and/or wired) are allowed while in class (lecture and recitation), unless you have UNT approved accommodation to have them. If this is the case, please see the Office of Disability Access (ODA) to ensure that the appropriate paperwork has been filed. <https://studentaffairs.unt.edu/office-disability-access>.

(It is literally my job to teach you. Please, please, please communicate your needs to ODA and myself so I can do this effectively!)

Additionally, you should NOT be on TikTok, BeReal, Snapchat, YouTube, Instagram, Facebook, or any other social media platform while in class. Finally, taking photographs, video recordings, or audio recordings of me and/or materials without my explicit permission is NOT allowed.

My Teaching Philosophy – The importance of Goal setting

I believe that everyone can “do” chemistry, regardless of what you may have heard before. I find chemistry endlessly interesting and my goal in this course is to introduce you to some of that fascination. I want you to learn the foundations of chemistry that you will carry with you through other chemistry courses, as well as into your everyday life. I have tried to ensure that the material in this course is presented in several different ways, from reading to videos to interactive simulations. I want you to *think* about the material and learn how to apply the knowledge you are gaining to solve chemical problems. I do not want you to simply memorize and regurgitate information on exams.

Goal setting is a very important step in ensuring your success in any undertaking. I would like you to pause here and think about the grade you want to make in this class and in your other courses that you are taking this Fall. Many of my students want to make A’s in all their classes. Some want to make B’s and a few just want to survive and therefore consider a C sufficient for their purposes. I make no judgment about what you have chosen for yourself. My job is to support you in achieving your goal. So, I would like you to be very honest with yourself and write down the grades you want to make in your classes on a plain piece of paper.

Now set your second goal which is to work diligently towards achieving the first goal throughout this semester. In fact, go ahead and write the grades on more pieces of paper and stick them to the fridge, to the bathroom mirror, on your desk, even make the letter grades your screen saver on your cell phone and on your computer. Let everything around you remind you of your goal, and purpose to walk towards this goal every moment of the semester. If you find yourself playing a computer game, or doing something random, simply ask yourself, “Is this taking me towards my goal?” If it is not, just gently turn from it and continue walking towards your goal. Practice this every day without fail.

You see, I believe in you. I believe that you are able to achieve any goal that you set your sights on as long as you keep walking towards it without getting overly distracted. I would like you now to believe in yourself and focus on achieving your goals for this semester. Tell yourself that you can do it. Remind yourself every day that you can do it. Do not let anyone tell you that you cannot do it. If they do, just tell them, “Wait till I finish, and I will show you.” Remember. All you have to do is to keep thinking about your goals every moment, and simply keep

walking/working towards them. You do not have to struggle. You just keep working. You just need to keep working on every assignment, keep up with every reading and every homework assignment on a daily basis. If you get distracted for a moment, that is ok. Just notice it, gently turn from it, and keep working on the course materials.

A 16-week semester is such a short time. Before you know it, the semester will be over. And..... You will have achieved your goal..... OR not. It all depends on the decisions you make every minute, of every hour, of every day. As for me, it is my desire that every student passes this course.

As I said before, I believe in You, and I believe in your ability to achieve any goal that you set your mind on and to which you give 100 % of your total undivided focus. You can do it.

You had better believe it. And believe in yourself.

ASSESSMENT & GRADING

Possible Points for Semester/Grading Scale = 1000

1000-900 = A	699-600 = D
899-800 = B	<599 = F
799-700 = C	

i.	Lecture Review Quizzes	100
ii.	Chapter Homework	150
iii.	Recitation Assignments	100
iv.	Lecture participation	50
v.	Midterm Exams (4 x 100 %)	400 (1 exam dropped)
vi.	Final Exam	200
	Total points	1000

Assessments

- 14 weekly quizzes (online through Canvas) - 100 points total, all quiz grades will be averaged together, lowest 1-2 will be dropped; 10 % of overall grade.
- 13 weekly Homework assignments paper worksheets - 150 points total, all quiz grades will be averaged together, lowest 1-2 will be dropped: 15 % of overall grade.
- Lecture participation – You will earn points for participating in the group quizzes given in lecture; lowest 4 will be dropped; 5 % of overall grade.
- Recitation assignments - There will be a paper recitation worksheet and a recitation quiz during every recitation for a total of 100 points; 10 % of overall grade.
- 4 mid-term exams - 100 points each (the lowest one will be dropped and the second lowest will be replaced by half of the Final grade), 400 points total - 40 % of overall grade.
- 1 cumulative final exam - 200 points, 20 % of overall grade

Extra Credit

You'll earn 2 extra credit points for every 90-minute PLTL session you attend, up to a maximum of 2 sessions a week for a maximum of 30 extra credit points in the semester.

The PLTL leaders will keep a record of your attendance, but you need to maintain your own record too. Please don't ask me how many times you've attended so far, because I'll not know until I get the records at the end of the semester.

Examination Policy

There will be **FOUR** 50-minute exams with 20 multiple-choice questions. Each exam will have 100 points possible. At the end of the course, your average will be calculated after dropping the lowest of the four semester exam grades. If a student receives a "0" because of cheating, that grade **cannot** be used as the dropped grade. All the exams will be on **Fridays during the lecture class**. All exams must be taken on the scheduled dates (see Page 9/10). As a rule of thumb, there will *not* be any makeup exams.

Nevertheless, some extenuating circumstances do qualify for makeup exams such a medical emergency, documented official UNT travel, military training, death in the family, etc. Thus, if you feel that you have a valid reason, that you are aware of ahead of time, you **MUST** email me several days BEFORE the exam, **NOT** afterwards. If you happen to be in the Emergency Room all day on the day of the test, you must email me ASAP with the appropriate documentation. A doctor's appointment or a religious holiday that you know about ahead of time must be reported way in advance – these are not emergencies.

You are expected to bring the following items to each exam:

- a writing utensil (preferably several pencils and a good eraser) and
- a scientific calculator.

You'll be bubbling your answers on a scantron using a pencil. Scantrons, periodic tables, and scratch paper will be provided. Personal cell phones, tablets, laptop computers, smartwatches, meta glasses, smart glasses, headphones/earbuds/Air pods, or other electronic devices will **NOT** be allowed (if you are caught using any of these items during the exam, you will requested to leave the room, and you will receive a zero on that exam).

Final Exam (20%)

You will have 120 minutes to answer the 50 questions on the Final exam. This exam is cumulative (covering all material for the course) and must be taken on the scheduled date above. You will **NOT** be allowed to take this final outside of this window of time. If you have extremely extenuating circumstances that prevent you from taking this exam on the scheduled date and time, you must let me know about it ASAP.

This course is NOT complete without the Final exam.

According to UNT policy, if you miss the final exam due to an excused absence, you will be assigned an Incomplete grade (I-grade) at the end of that semester. You will then have a full calendar year to complete the exam to adjust the grade. Otherwise, the grade defaults to an "F" if you don't complete the course by the end of the calendar year. You are responsible for following up with your instructor to ensure that you complete the final exam asap.

Late Work

Late work, homework, quizzes, and exams will not be accepted beyond the deadlines except for university excused absences and extremely extenuating circumstances, which I reserve the right to define. There will be no makeup exams for missed exams unless extremely extenuating circumstances can be proven. The Final exam will replace the lowest exam grade if it is higher than the exam grade. **If you have a valid reason for missing an exam then, you must email**

me ASAP. I get to decide the validity of your reasons. A missed exam (without excused absence) earns a zero grade, which is eligible to be replaced by the Final exam. Under extremely extenuating circumstances, I may give a makeup exam or extend due dates for assignments. So please let me know your reasons for missing an exam or an assignment so that I'm able to decide what we need to do about it.

Some very limited concessions will be provided as per the advice of the office of the Dean of Students due to COVID issues and other matters that are traditionally arbitrated by the Dean of Students. So, if you have any COVID related issues, religious holidays, debilitating family, mental or emotional issues that keep you out of school for more than 5 days, **you MUST report them FIRST to the Dean of Students' office**, then to the instructor of record.

For absences due to religious holidays, UNT travel and military training which you are aware of ahead of time, you must talk to me about them at the beginning of the semester. Otherwise, the absence will **NOT** be excused if you tell me about it either after the fact or on the day of. This also applies to scheduled surgeries, doctor's appointments and work-related travel that you know about ahead of time.

Class Attendance

Research has shown that students who attend class regularly are more likely to be successful than chronic absentees. You should attend every class unless you have a university excused absence such as active military service, a religious holy day, or an official university function as stated in the [Student Attendance and Authorized Absences Policy \(PDF\)](https://policy.unt.edu/policy/06-039) (<https://policy.unt.edu/policy/06-039>). If you cannot attend a class due to an emergency, please let me know. Your safety and well-being are important to me.

If you test positive for COVID, please refer to the current CDC Guidelines at <https://www.cdc.gov/covid/prevention/index.html>. Students will need to provide documentation of a positive test and/or medical treatment in order to meet [UNT's Student Attendance & Authorized Absence policy](#).

Class attendance will be taken regularly and there will be group activities that will be turned in for a grade during each lecture. Students are expected to attend class meetings regularly and to abide by the attendance policy established for the course as per UNT policy. It is important that you communicate with the professor and the instructional team prior to being absent, so you, the professor, and the instructional team can discuss and mitigate the impact of the absence on your attainment of course learning goals. Please inform the professor and instructional team if you are unable to attend class meetings because you are ill, or in mindfulness of the health and safety of everyone in our community.

Please Get Help!

If you have questions about anything at all, or are confused about anything at all, or if you just need someone to hold your hand and tell you that everything will be ok, please do not hesitate to reach out either to me or any of the other class helpers. Below is the list of the staff that you may reach out to at any time.

Other Assistance

1. Instructor's drop-in help or Office hours: **MoWe: 2:30 – 3:30 PM, in CHEM 164 and by appointment** (Please e-mail: sophia.kinyanjui@unt.edu).
2. Chemistry Resource Center (CRC): CHEM 231 – on- Thurs. 8am-6pm, Fri 8am-3pm
–staffed by Chemistry graduate students. For more information visit:
<https://chemistry.unt.edu/undergraduate-program/instructional-resources>
3. **The Computational Chemistry Instructional Laboratory (CCIL)**: CCIL provides computer access to all undergraduate and graduate students enrolled in UNT chemistry courses. Computers are to be used only for chemistry related work and instruction. The CCIL is staffed by chemistry graduate students knowledgeable in the area of computational chemistry.

More information about CRC and CCIL can be found at this website (<https://chemistry.unt.edu/undergraduate-program/instructional-resources>).

4. Undergraduate Teaching Assistants (PLTL) - one or two 90-minute meetings per week.
–These are small study groups working collaboratively on challenging course content problems, guided by a peer leader. (See PLTL/TA resources in Canvas for contact emails)
5. Graduate Teaching assistants (TA) (See PLTL/TA resources in Canvas for contact emails)

Drop-In Help (Student Hours / Office Hours)

Drop-in student hours (or “office hours”) are times that Dr. Kinyanjui (or the TA) is in her office, with her door open and ready to talk to you! Feel free to ask questions about the material being covered in class or anything else about chemistry. If you show up during the times listed above, you do NOT have to make an appointment or let me know that you are coming. If you cannot make those times, for whatever reason, send me an email and we can make an appointment.

Regarding dissemination of information, I exclusively use Canvas to message the entire class with reminders of deadlines, changes to classroom policies, etc. In addition, I will post the lecture notes and grades on Canvas. Please make it a habit to check Canvas (and your UNT email) at least twice a week. I will not respond to email received from non-UNT email addresses, especially concerning grade information. With a personal email address, I cannot be certain it is you on the other end. As such, please only use your official UNT email address to email me.

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-8pm
- Saturday: 9am-5pm

Laptop Checkout: 8am-7pm

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

ACADEMIC INTEGRITY POLICY

Policy Statement (UNT Policy 06.003)

The University of North Texas promotes the integrity of learning and embraces the core values of trust and honesty. Academic integrity is based on educational principles and procedures that protect the rights of all participants in the educational process and validate the legitimacy of degrees awarded by the University. In the investigation and resolution of allegations of student academic dishonesty, the University's actions are intended to be corrective, educationally sound, fundamentally fair, and based on reliable evidence.

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.

Academic dishonesty and/or cheating will not be tolerated, and an automatic grade of "F" (zero grade) will be given for that particular assignment or test. Additionally, the incident will be reported to the Dean of Students, and to the Academic Integrity Office who may impose further penalty. The term "cheating" includes, but is not limited to:

(a) The use of any Unauthorized Aids During Examinations and Assessments

Students may use only those materials and resources that are expressly authorized by the instructor for a particular examination or assessment. Touching, holding, or accessing any unauthorized aid during the examination period constitutes a violation of the Student Code of Conduct, regardless of whether the aid is used. Any item that may be considered an unauthorized aid must be kept out of view and in a closed container (e.g. zipped backpack, buttoned purse, etc.) during the entirety of the examination or assessment.

Unless specifically authorized in writing by the instructor, prohibited aids include, but are not limited to:

- Mobile phones and smartphones
- Smartwatches and fitness trackers with communication, recording, or internet capabilities
- Tablets, laptops, and other computing devices
- Earbuds, headphones, and other audio devices
- Smart glasses, cameras, recording devices, and wearable technology
- Artificial intelligence (AI) tools, chatbots, and other generative AI technologies
- Notes, textbooks, study guides, formula sheets, or reference materials
- Any other device, material, or resource not expressly permitted by the instructor
- Students are responsible for clarifying any questions about permitted materials before the examination begins.

(b) Acquisition, without permission, of tests, notes, or other academic material belonging to a faculty member of the University.

(c) Any other action that is designed to give a student an unfair advantage.

For more information the full UNT policy: [06.003 Student Academic Integrity.pdf](#)

COURSE SCHEDULE

I will try to adhere to this schedule as closely as possible, but dates are subject to change based on the pace of the course. This should give you a rough idea of what to expect. **I reserve the right to change or**

modify the syllabus at any time. If changes are made, students will be notified during scheduled class times and the revised syllabus will be made available on Canvas.

Week	Date	Material	Assignments
1	M, Aug 17 W, Aug 19 F, Aug 21	Introduction. Syllabus. Good study habits. Begin Chapter 1 Chapter 1: Essential ideas Chapter 1	Chap 1 quiz Chap 1 HW 1
2	M, Aug 24 W, Aug 26 F, Aug 28	Chapter 1 Finish Chapter 1 Chapter 2, Molecules, Atoms and ions	Chap 1 quiz 2 Chapter 1 HW 2
3	M, Aug 31 W, Sep 2 F, Sep 4	Chapter 2 Chapter 2 Chapter 3: Electromagnetic radiation	Chap 2 quiz Chap 2 HW
4	M, Sep 7 W, Sep 9 F, Sep 11	Labor Day Holiday – NO Classes Chapter 3, Energy Calculations and Exam 1 review Exam 1: Chap 1, 2, & 3 part 1,	Chap 3 quiz Chap 3 HW 1
5	M, Sep 14 W, Sep 16 F, Sep 18	Chapter 3 Quantum Theory Chapter 3 Chapter 3	Chap 3 quiz 2 Chap 3 HW 2
6	M, Sep 21 W, Sep 23 F, Sep 25	Chapter 4: Chemical Bonding and Nomenclature Chapter 4 Chapter 4: Lewis Structures	Chap 4 quiz 1 Chap 4 HW 1
7	M, Sep 28 W, Sep 30 F, Oct 2	Chapter 4 Chapter 4 Chapter 4: Molecular Structure and Geometry	Chap 4 quiz 2 Chap 4 HW 2
8	M, Oct 5 W, Oct 7 F, Oct 9	Chapter 4: Chapter 5, Advanced bonding theories Exam 2: Chap 3 part 2 & Chapter 4	Chap 4 quiz 3 Chap 5 HW 1
9	M, Oct 12 W, Oct 14 F, Oct 16	Chapter 5 Chapter 6, Formula Mass, Empirical and Molecular Formulas Chapter 6	Chap 6 quiz 1 Chap 5 & 6 HW
10	M, Oct 19 W, Oct 21 F, Oct 23	Chapter 6: Composition of substances and solutions Chapter 6 Chapter 7: Reaction Stoichiometry	Chap 6 quiz 2 Chap 6 HW 2
11	M, Oct 26 W, Oct 28 F, Oct 30	Chapter 7: Chapter 7: Exam 3: Chap 5, 6, & 7,	Chap 7 quiz Chap 7 HW
12	M, Nov 2 W, Nov 4 F, Nov 6	Chapter 8: KMT, Gas Laws Chapter 8 Chapter 8: ideal gas law, gas density	Chap 8 quiz 1 Chap 8 HW
13	M, Nov 9 W, Nov 11 F, Nov 13	Chapter 8 Chapter 9: Energy basics and calorimetry Chapter 9	Chap 8 & 9 quiz Chap 9 HW 1
14	M, Nov 16 W, Nov 18	Chapter 9: Calorimetry and Enthalpies of reaction Chapter 9: Enthalpies of reaction calculations	Chap 9 quiz 2

	F, Nov 20	Exam 4: Chap 8 & 9 part 1	
	Nov 23-29	Fall Break – NO CLASSES	
15	M, Nov 30 W, Dec 2 F, Dec 4	Chapter 9 Enthalpy and bond energy Final Review UNT Reading Day: NO Classes	Chap 9 HW 2
16	Sat, Dec 5	Comprehensive Final Exam: 10:30 am–12:30 pm in CHEM 109	

Saturday, December 5, (10:30 am–12:30 pm in CHEM 109) is our scheduled Comprehensive Final Exam time as scheduled by the Office of the Registrar. **Always confirm date/time with Office of the Registrar******

Strategies for Success

To succeed in any college course, students must be diligent, self-motivated, dedicated, self-disciplined team-players who are willing to learn not only from the instructor, but also from each other and to keep up with the reading schedule, homework and quizzes' deadlines.

The most important key to success is working consistently on the course material throughout the semester and accessing help promptly whenever it is needed. If you start to fall behind, be sure to get caught up ASAP. **Below are a few important considerations that will help to keep you firmly focused on your academic goals.**

How to Make an A in this Class: A loose blueprint

1. Attend every lecture and recitation. A very strong correlation exists between attendance and success in Chemistry 1410. Since the topics covered in this course build on each other, missing even one class can mean the difference between an 'A' and a 'B' or even 'C' in the course. Beware!!!
 2. Prior to class, read the chapter section which will be covered in lecture. During the class, pay attention and take good notes for yourself. Ask questions if you are confused about anything.
 3. Review your lecture notes **immediately** after each class. Correct obvious errors and note topics which require further study or clarification.
 4. Work on the lecture review quizzes and homework daily
 5. While working out the problems, make notes for yourself about how you solved the homework questions and refer to lecture notes for similar examples or the textbook for similar examples (problems that are worked out are in tan boxes).
 6. Spend the necessary amount of time studying chemistry. The rule of thumb for succeeding in any science course is two to three hours of study for every hour of lecture. This means that at a minimum you should plan to study Chemistry for six hours each week – make it nine hours weekly whenever possible.
 7. Don't procrastinate. These concepts take time to sink in, and you may have to practice these exercises over a period of many days in order to master the necessary skills.
 8. Form a study group. This is your first avenue for getting help. Be able to communicate with each other short notice, not just before class.
 9. Pay close attention to the supplemental homework problems; these are similar to a practice exam.
 10. E-mail or ask professor in class if you have any questions, don't wait until you are cramming the night before an exam and feel swamped.
 11. To study for exams: **go over notes and all assigned HW problems with a strong focus on the Lecture Review quizzes;** review notes you wrote to yourself about how you solved each problem.
 12. Have confidence in your abilities and have a successful semester!
- Visit **success.unt.edu** for even more resources and general tips and information.

Groupwork

Groupwork is highly encouraged as it is virtually impossible to do well on any science course without tons of help from your peers. Form a study group and consider it your first line of defense against failure. Meet with them often to work on the course material and teach each other the new concepts that you have learned. Assign each other different concepts to each person to master. Then you may have a meeting where everyone articulates the concepts they have mastered for everyone else's benefit. Learn from each other that way. Remember!!! You are not looking for people to teach you from among your classmates. Rather, you are looking for people that you can teach the concepts that you have mastered! Your study group will consist of people that want to bounce ideas and concepts off of each other.

How much Outside Class Study Time?

- The rule of thumb that research has found to work for most students is the 2 – 3 hours outside of class study time, for every hour of Lecture.
- This means that **you must spend at least 6- 9 hours studying and working with your study group every week** in order to succeed in this class. The more you can do the better.

TIPS FOR SUCCESS

We will be using an active and student-centered approach to learning. We will use simulations, teamwork collaboration, and group discussions. Your peers will be the first place you can turn to ask questions or verify your knowledge of the topics we are discussing. I ask questions during class and will wait for responses. Even wrong answers are okay! It helps me know where you are at in the discussion.

Before Class

You should be doing the following things before attending class: review material from the last class, read from the textbook about the material in the upcoming class, write down any questions you have, review upcoming topics (5-10 minutes), and download/print the lecture slides for the upcoming class.

During Class

While in class, you should: stay awake, follow along with the notes, ask questions, work through problems, and collaborate with your peers. You should NOT simply be re-writing the notes.

After Class

After each class, take time to: review notes, work through homework problems, attend PLTL sessions, and ask questions in the CRC or drop-in student/office hours.

Instructor Responsibilities and Feedback

I will do my best to present the material in this class to you in a way that helps you understanding the common threads

linking it all together. I promise that I will do my best to help you be successful in this course. I will be available to you for questions, I will provide timely feedback on your work, and I will make sure that this course is an open, safe, and inviting place to learn chemistry.

Feedback on performance can be provided at any time through office hours, or a scheduled appointment outside of posted office hours. In the event that assignments are hand graded, the grades will be uploaded to Canvas within a week of the due date.

Syllabus Change Policy

In the event that any aspect of this course changes, the updated syllabus will be posted in Canvas. In addition, an announcement will be posted on Canvas and if possible, an announcement made verbally about it in class.

Rules of Engagement

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

- While the freedom to express yourself is a fundamental human right, any communication that utilizes cruel and derogatory language on the basis of race, color, national origin, religion, sex, sexual orientation, gender identity, gender expression, age, disability, genetic information, veteran status, or any other characteristic protected under applicable federal or state law will not be tolerated.
- Treat your instructor and classmates with respect in any communication online or face-to-face, even when their opinion differs from your own.
- Ask for and use the correct name and pronouns for your instructor and classmates.
- Speak from personal experiences. Use “I” statements to share thoughts and feelings. Try not to speak on behalf of groups or other individual’s experiences.
- Use your critical thinking skills to challenge other people’s ideas, instead of attacking individuals.
- Avoid using all caps while communicating digitally. This may be interpreted as “YELLING!”
- Be cautious when using humor or sarcasm in emails or discussion posts as tone can be difficult to interpret digitally.
- Avoid using “text-talk” unless explicitly permitted by your instructor.
- Proofread and fact-check your sources.
- Keep in mind that online posts can be permanent, so think first before you type.

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

Incomplete Grade

An incomplete grade (I grade) is only given if the student meets the requirements as set forth by the university. The incomplete for the course is only given during the last one-fourth of a semester and only if a student: (1) is passing the course; (2) has justifiable reason why the work cannot be completed on schedule; and (3) arranges with the instructor to finish the course at a later date by completing specific requirements that the instructor must list on the electronic grade roster. The I grade cannot be used to replace a failing grade. All work on the course must be completed within the specified time (not to exceed one year after taking the course). For additional information visit the Office of the Registrar’s website at <https://registrar.unt.edu/grades/incompletes>

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 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 at <http://spot.unt.edu/> or email spot@unt.edu.

Student Academic Support Services

- [Academic Resources](#): where to buy textbooks and supplies, access academic catalogs and programs, register for classes, and more
- [Code of Student Conduct](#): provides Code of Student Conduct along with other useful links
- [Office of Disability Accommodation](#): exists to prevent discrimination based on disability and to help students reach a higher level of independence
- [Counseling and Testing Services](#): provides counseling services to the UNT community, as well as testing services; such as admissions testing, computer-based testing, career testing, and other tests
- [UNT Libraries](#): library services
- [UNT Learning Center](#): provides a variety of services, including tutoring, to enhance the student academic experience
- [UNT Writing Center](#): offers free writing tutoring to all UNT students, undergraduate and graduate
- [Succeed at UNT](#): information regarding how to be a successful student at UNT

UNT POLICIES

ADA Policy

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.

Prohibition of Discrimination, Harassment, and Retaliation (Policy 16.004)

The University of North Texas (UNT) prohibits discrimination and harassment because of race, color, national origin, religion, sex, sexual orientation, gender identity, gender expression, age, disability, genetic information, veteran status, or any other characteristic protected under applicable federal or state law in its application and admission processes; educational programs and activities; employment policies, procedures, and processes; and university facilities. The University takes active measures to prevent such conduct and investigates and takes remedial action when appropriate.

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.

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 Canvas 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.

Access to Information - Eagle Connect

Students' access point for business and academic services at UNT is located at: my.unt.edu. 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: eagleconnect.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 SurvivorAdvocate@unt.edu 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 oeo@unt.edu or at (940) 565 2759.

Academic Support & Student Services

Student Support Services

Mental Health

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:

- [Student Health and Wellness Center](https://studentaffairs.unt.edu/student-health-and-wellness-center) (<https://studentaffairs.unt.edu/student-health-and-wellness-center>)
- [Counseling and Testing Services](https://studentaffairs.unt.edu/counseling-and-testing-services) (<https://studentaffairs.unt.edu/counseling-and-testing-services>)
- [UNT Care Team](https://studentaffairs.unt.edu/care) (<https://studentaffairs.unt.edu/care>)

- [UNT Psychiatric Services](https://studentaffairs.unt.edu/student-health-and-wellness-center/services/psychiatry) (<https://studentaffairs.unt.edu/student-health-and-wellness-center/services/psychiatry>)
- [Individual Counseling](https://studentaffairs.unt.edu/counseling-and-testing-services/services/individual-counseling) (<https://studentaffairs.unt.edu/counseling-and-testing-services/services/individual-counseling>)

Chosen Names

A chosen name is a name that a person goes by that may or may not match their legal name. If you have a chosen name that is different from your legal name and would like that to be used in class, please let the instructor know. Below is a list of resources for updating your chosen name at UNT.

- [UNT Records](#)
- [UNT ID Card](#)
- [UNT Email Address](#)
- [Legal Name](#)

**UNT eulDs cannot be changed at this time. The collaborating offices are working on a process to make this option accessible to UNT community members.*

Pronouns

Pronouns (she/her, they/them, he/him, etc.) are a public way for people to address you, much like your name, and can be shared with a name when making an introduction, both virtually and in-person. Just as we ask and don't assume someone's name, we should also ask and not assume someone's pronouns.

You can [add your pronouns to your Canvas account](#) so that they follow your name when posting to discussion boards, submitting assignments, etc.

Below is a list of additional resources regarding pronouns and their usage:

- [What are pronouns and why are they important?](#)
- [How do I use pronouns?](#)
- [How do I share my pronouns?](#)
- [How do I ask for another person's pronouns?](#)
- [How do I correct myself or others when the wrong pronoun is used?](#)

Additional Student Support Services

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

Academic Support Services

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

Disclaimer

The descriptions and timelines outlined in this document are subject to change at the discretion of the instructor.
