CHEM 1420.001 – General Chemistry II for Science Majors

Fall 2025

Instructor Contact

Name: Dr. Sophie Kinyanjui
Office Location: CHEM 164
Phone Number: 940-369-7134
Drop-in help or Office Hours: Mo, 3:00 – 4:00 PM, We: 3:30 – 4:30 PM, Fr: 1:00 – 2:00 PM in CHEM 164 and by appointment (please email)
Email: sophia.kinyanjui@unt.edu

Class Times and Rooms

- Lecture: MoWeFr 10:00 AM – 10:50 AM Room: CHEM 109
- Recitation: Mo 2:00 PM – 2:50 PM Room: CHEM 109

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.kinyanjui@unt.edu**) which you can also access through Canvas with any questions, comments, or concerns.

I also routinely communicate with the class as a whole through announcements in Canvas. Be sure to set up your Canvas page so that you receive push notifications of changes made to the page!

Course Description

This course is for science and science-related majors. It is a continuation of Chemistry 1410. This class is math heavy. Most of what you will do is calculations. So, having a scientific calculator is a must! You will be required to remember a lot of the material that you learnt in General Chemistry 1 as well. So, if you have time to review topics such as naming of chemicals, the formulas of common compounds, drawing Lewis structures, solubility rules, balancing equations, and mole calculations, limiting reactants, this will come in very handy. Topics covered include colligative properties of solutions, chemical thermodynamics, chemical equilibrium, modern acid-base theory, buffers, solubility, electrochemistry, reaction kinetics, and nuclear chemistry.

Course Prerequisites or Other Restrictions

Pre-reqs: **Course Description**
Grade of "C" or better in CHEM 1410 (General Chemistry I) or equivalent.

Co-Reqs: While it is not required, it is strongly encouraged that you enroll in CHEM 1440 (General Chemistry II lab). If you are not required to take the lab or you otherwise cannot do so this semester, you will be just fine.

- CHEM 1440 is the laboratory course, and it is a separate course from CHEM 1420. 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 1440.00x) and a lab (CHEM 1440.4xx).

Course Objectives

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

- demonstrate an understanding of the colligative properties of solutions and their mathematical expression.
- demonstrate an understanding of the nature of acids and bases, both "weak" and "strong".
- use the concepts of thermodynamics to predict the spontaneity of processes, as well as the changes in free energy, entropy, and enthalpy.
- demonstrate an understanding of the concept of chemical equilibria and its application to gas phase equilibria, heterogeneous equilibria, acid-base equilibria, and solubility; show the relationship between free energy and equilibrium constant
- demonstrate an understanding of the basic concepts of electrochemistry and be able to use standard reduction potentials to calculate quantities involved in an electrochemical reaction; relate free energy, equilibrium constant, and cell potential
- demonstrate an understanding of chemical kinetics and the relationship to reaction mechanisms and be able to perform calculations related to the rates of chemical reactions.
- Write nuclear symbols for nuclides and subatomic particles and explain the differences between nuclear and chemical reactions
- Describe nuclear fusion and fission, balance nuclear reactions and use kinetics of radioactivity to solve problems.

Required Materials

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 can be accessed directly in Canvas. Homework and Exams will be found as assignments. Quizzes will be taken on paper in class.

My Teaching Philosophy – The importance of Goal setting

I believe that everyone can succeed in 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. Many of my students want to make As 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 the goal that you set for yourself. So, I would like you to be very honest with yourself and write down the grade you want to make in this class 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 grade on more pieces of paper and stick them to the fridge, to the bathroom mirror, on your desk, even make the letter grade the 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, then just gently turn away 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 mind to 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 summer. 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 goal every moment, and simply keep walking towards it. You do not have to struggle. You just keep walking. You just need to keep working on every assignment, keep up with the readings 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.

16 weeks is such a short time. Before you know it, the semester will be over. And….. You will have achieved your goal….. or not. It entirely depends on you and the decisions you make. Most importantly, believe in yourself.

I suggest that you write yourself a weekly schedule for all your classes, including all the required face-to-face class times, study time, any upcoming assignments, and things of that nature. Do not forget to schedule yourself time to eat, to sleep, and to do whatever else you need to stay healthy!

Technical Requirements & Skills

Minimum Technology Requirements

- Computer
- Reliable internet access
- Speakers
- Microphone
- Plug-ins
- Microsoft Office Suite
- Canvas Technical Requirements (https://clear.unt.edu/supported-technologies/canvas/requirements)

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, Airpods, etc. (bluetooth and/or wired) are allowed while in class (lecture and recitation), unless you have an 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.

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	130
ii.	Chapter Homework	220
iii.	Recitation Assignments	150
iv.	Lecture participation	50
v.	Midterm Exams (4 x 100 %)	300 (1 exam dropped)
vi.	Final Exam	150
	Total points	**1000**

Assessments

- 28 weekly quizzes (online through Canvas) - 130 points total, all quiz grades will be averaged together, lowest 3-4 will be dropped; 13 % of overall grade.
- 14 weekly Homework assignments paper worksheets - 220 points total, all quiz grades will be averaged together, lowest 2 will be dropped: 22 % 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 150 points; 15 % 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), 300 points total - 30 % of overall grade.
- 1 cumulative final exam ACS - 150 points, 15 % 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 20 extra credit points in the semester.

The PLTL 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** 60-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. These exams will occur on **Wednesdays**. All exams must be taken as scheduled, on the regularly scheduled dates (see Page7/8). There will *not* be any makeup exams. A missed exam will count as your dropped test (unless there is a *well- documented* serious illness, requiring hospitalization, or a university excused absence). For our regular semester exams, you will take the exams in the Testing Center, with the location indicated above. You will be able to "drop-in" during the time windows listed for those exams. You are expected to bring the following items to each exam: a writing utensil (preferably a pencil with a good eraser) and a scientific calculator. Scratch paper will be provided. Personal cell phones, tablets, laptop computers, headphones/earbuds/Airpods, or other electronic devices will NOT be allowed (if you are caught using any of these items during the exam, you will receive a zero on that exam).

Final Exam (15%)

The final exam will be 120 minutes for this course and will be cumulative (covering all material for the course), occurring on the scheduled date above. You will *NOT* be allowed to take this final outside of this window of time. More details about the final will be given throughout the semester. The final exam will occur in the Testing Center, with the location indicated above.

You will be able to "drop-in" during the time window listed for the final exam, just like your regular-semester exams.

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. The Final 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 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, or debilitating family, mental or emotional issues, **you MUST report them FIRST to the Dean of Students' office**, then to the instructor of record. For absences due to religious holidays 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 are more likely to be successful. 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). If you cannot attend a class due to an emergency, please let me know. Your safety and well-being are important to me.

Attendance will be taken and there will be group activities that will be turned in for a grade during every 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.

If you are experiencing any symptoms of COVID-19 please seek medical attention from the Student Health and Wellness Center (940-565-2333 or askSHWC@unt.edu) or your health care provider PRIOR to coming to campus. UNT also requires you to contact the UNT COVID Team at COVID@unt.edu for guidance on actions to take due to symptoms, pending or positive test results, or potential exposure.

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 the instructor 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 Office hours: **Mo, 3:00 – 4:00 PM, We: 3:30 – 4:30 PM, Fr: 1:00 – 2:00 PM in CHEM 164 and by appointment (please email)**
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.
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 us know that you are coming. If you cannot make those times, for whatever reason, send us 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 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)

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.

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

(a) The use of any unauthorized assistance when taking exams, such as class notes, talking to another student, using cell phones, tablets, smart watches, or any other electronic gadget.
(b) Acquisition, without permission, of tests, notes, or other academic material belonging to a faculty member of the University.
(c) Any other act that is designed to give a student an unfair advantage.

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. An I grade may not be used to replace a failing

grade. All work in 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

Preliminary Lecture Schedule (subject to change)

This is a tentative class schedule that may be modified, based on the class's progress during the semester.

Week	Date	Material	Assignments
1	M, Aug 18	Introduction. Syllabus. ALEKS. Good study habits. Begin Chapter 10	
	W, Aug 20	Chapter 10: **Liquids and solids**	Chap 10 quiz 1
	F, Aug 22	Chapter 10	Chap 10 quiz 2
2	M, Aug 25	Finish Chapter 10	Chap 10 HW
	W, Aug 27	Chapter 11 **Physical Properties of Solutions**	Chap 11 quiz 1
	F, Aug 29	Chapter 11	Chapter 11 HW 1
3	**M, Sep 1**	**Labor Day Holiday – No Classes**	
	W, Sep 3	Chapter 11	Chap 11 quiz 2
	F, Sep 5	Finish Chapter 11	Chap 11 HW 2
4	M, Sep 8	**Chapter 12: Entropy and Gibbs Energy and Exam 1 Review**	Chap 12 quiz 1
	W, Sep 10	**Exam 1: Chap 10 & 11,** drop in 9:00am–9:00pm in SAGE 332	Chap 12 HW 1
	F, Sep 12	Chapter 12	Chap 12 quiz 2
5	M, Sep 15	Chapter 12	Chap 12 quiz 3
	W, Sep 17	Chapter 13: **Fundamentals of Equilibrium**	Chap 12 & 13 HW
	F, Sep 19	Chapter 13	Chap 13 quiz 1
6	M, Sep 22	Chapter 13	Chap 13 quiz 2
	W, Sep 24	Chapter 13	Chap 13 HW 2
	F, Sep 26	Chapter 13	Chap 13 quiz 3
7	M, Sep 29	Chapter 14: **Acid- Base Equilibria and Exam 2 Review**	Chap 14 quiz 1
	W, Oct 1	**Exam 2: Chap 12 & 13,** drop in 9:00am–9:00pm in SAGE 332	
	F, Oct 3	Chapter 14	Chap 14 HW 1
8	M, Oct 6	Chapter 14	Chap 14 quiz 2
	W, Oct 8	Chapter 14	Chap 14 HW 2
	F, Oct 10	Chapter 14	Chap 14 quiz 3
9	M, Oct 13	Chapter 14	Chap 14 quiz 4
	W, Oct 15	Chapter 15, **Equilibria of other reactions**	Chap 15 quiz 1
	F, Oct 17	Chapter 15	Chap 15 HW 1
10	M, Oct 20	Chapter 15 **Exam 3 Review**	Chap 15 quiz 2
	W, Oct 22	**Exam 3: Chap 14 & 15,** drop in 9:00am–9:00pm in SAGE 332	
	F, Oct 24	Chapter 16: **Electrochemistry**	Chap 16 quiz 1
11	M, Oct 27	Chapter 16:	Chap 16 HW 1
	W, Oct 29	Chapter 16:	Chap 16 quiz 2
	F, Oct 31	Chapter 16:	Chap 16 HW 2
12	M, Nov 3	Chapter 16	Chap 16 quiz 3
	W, Nov 5	Chapter 17, **Chemical Kinetics**	Chap 17 quiz 1
	F, Nov 7	Chapter 17	Chap 17 HW 1
13	M, Nov 10	Chapter 17	Chap 17 quiz 2
	W, Nov 12	Chapter 17	Chap 17 HW 2
	F, Nov 14	Chapter 17	Chap 17 quiz 3
14	M, Nov 17	Chapter 17 **4 Review**	Chap 17 quiz 3
	W, Nov 19	**Exam 4: Chap 16 & 17,** drop in 9:00am–9:00pm in SAGE 332	
	F, Nov 21	**C**hapter 20	Chap 20 quiz 1

	Nov 24-30	**Fall Break – NO CLASSES**	
15	M, Dec 1 W, Dec 3 F, Dec 5	Finish Chapter 20 and General Review: Final Review UNT Reading Day	Chap 20 quiz 2
16	**Sa,** Dec 6	**Comprehensive Final Exam: drop in 9:00am–5:00pm in SAGE 332**	

Saturday, December 6, *(Drop in 9:00am–5:00pm in SAGE 332)* is our scheduled Comprehensive Final Exam time as scheduled by the Office of the Registrar in our regular classroom

****Always confirm date/time with Office of the Registrar****

Strategies for Success

In order to succeed in any college course, students must be self-motivated, dedicated, self-disciplined team-players that 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 1420. Because 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 which will be covered in lecture.
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 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 Chemistry 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.
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 on short notice, not just before class.
9. Play close attention to the supplemental homework problems; these are similar to a practice exam. ***These are worked out during recitation and answers are not posted on Canvas or in the book.***
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 in any science courses 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 for each person to master. Then 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, reading 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, following 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 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.
- DoN't Do ThIs WeIrD WaY oF tYpInG.
- 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 Engagement Guidelines (https://clear.unt.edu/online-communication-tips) for more information.

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:

- 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)
- UNT Care Team (https://studentaffairs.unt.edu/care)
- UNT Psychiatric Services (https://studentaffairs.unt.edu/student-health-and-wellness-center/services/psychiatry)
- Individual Counseling (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)
- Counseling and Testing Services (https://studentaffairs.unt.edu/counseling-and-testing-services)
- Pride Alliance (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)
- UNT Libraries (https://library.unt.edu/)
- Writing Lab (http://writingcenter.unt.edu/)
- MathLab (https://math.unt.edu/mathlab)
- Chemistry Resource Center (CRC) (https://chemistry.unt.edu/undergraduate-program/instructional-resources)

UNT Policies

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.

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 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 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 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.

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 Electronic Code of Federal Regulations website (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 internationaladvising@unt.edu) 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 UNT Policy 07-002 Student Identity Verification, Privacy, and Notification and Distance Education Courses (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.

2. 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.

Disclaimer

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