Greetings and Welcome to the 2020 Fall Semester of Chemistry 1410! My name is Dr. Sophie Kinyanjui and I am excited to be your professor in this course.

I have a Ph.D in Inorganic Chemistry, which I completed at the University of North Texas in 2015. I have been teaching college-level chemistry since 1998 and I have been around chemistry for a long time. I am very passionate about student learning as well as doing my part in demonstrating the important role that chemistry plays in many aspects of our lives as you will see throughout this course. Best of luck throughout the semester! I look forward to getting to know you over the next months.

Instructor Contact Information

- Office location: Online via zoom or canvas discussions.
- Office hours: M: 1:00 PM – 2:00 PM, Tu 10:00 AM-11:00 AM, and by appointment (Please e-mail).
- Email address: Sophia.kinyanjui@unt.edu

Welcome to UNT!

As members of the UNT community, we have all made a commitment to be part of an institution that respects and values the identities of the students and employees with whom we interact. UNT does not tolerate identity-based discrimination, harassment, and retaliation. UNT’s full Non-Discrimination Policy can be found in the UNT Policies section of the syllabus.

Communicating With Your Instructor

It is best to reach me through email (Sophia.kinyanjui@unt.edu) with any questions, comments, or concerns. Response to email is usually within 48 hours on weekdays and by the next business day on weekends. If I am away, response to email is usually within 48 hours of my return.

Course Description

This course is for science and science-related majors. The topics covered include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases, and an introduction to thermodynamics and descriptive chemistry.

PREREQUISITES: Grade of “C” or better in MATH 1100 or equivalent.

COREQUISITE: CHEM 1410.231 (Recitation). This course is MANDATORY!

Course Objectives:

At the completion of the course, students should be able to:
• Apply dimensional analysis to solve problems.
• Demonstrate an understanding of the mole concept and apply moles in calculations relating quantities of substances to each other in reactions.
• Demonstrate the understanding of the gas laws and apply them to solve problems.
• Explain the relationship between heat, work, internal energy, and enthalpy changes to solve problems involving thermochemical concepts.
• Explain the concept of quantization as it applies to modern atomic theory.
• 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.
• Differentiate between ionic and molecular compounds, write Lewis formulas, and account for differences in properties.
• Utilize the VSEPR theory to predict the shapes of molecules, account for the effect of lone electron pairs and multiple bonds.
• Describe atomic orbitals using hybridization, and distinguish between sigma and pi bonds.
• Describe the fundamental particles of matter; relate basic laws and theories to their behavior, utilize a systematic method of naming compounds and polyatomic ions.
• Write and balance chemical equations and perform stoichiometric calculations. Classify the different types of reactions.
• Employ bonding theories to identify the intermolecular forces present in pure substances and in mixtures.

Core Curriculum Intellectual Competencies

• Reading: The ability to analyze and interpret a variety of printed materials (books, documents, and articles) above 12th grade level. Your textbook is written on a level above 12th grade and requires that you interpret graphs, charts, and figures, as well as text.
• Listening: Analyze and interpret various forms of spoken communication, possess sufficient literacy skills of writing and reading above 12th grade level. The lecture format requires you to listen critically and take notes.
• Critical Thinking: think and analyze at a critical level. Every chemistry problem is a word problem. You will learn to extract necessary data from a problem, disregard irrelevant data, select the appropriate chemical law for its solution, and apply that relationship.

Required Materials

**Required Textbook or e-book**: Book information: Chemistry Atoms First; by Burge and Overby 4th Edition Smartbook and e-book (come bundled up with the ALEKS and Connect)

**McGraw-Hill Connect access code (for Online Assignments)**: You will access these assignments through Canvas by clicking on the “McGraw-Hill Connect” icon. The first time you click on it, it will prompt you to purchase the access code.

**ALEKS 360 Online Homework** – You will access the ALEKS homework through Canvas by clicking on the ALEKS icon. You only need to purchase the access code for McGraw-Hill Connect, and this will give you access to ALEKS online homework.

**If you prefer a hard copy of the text, you may feel free to purchase one.** BUT, you will still need the online Smartbook (LearnSmart) to complete the reading assignments on Connect.
ASSESSMENT & GRADING

Letter grades are based on the following scale:

- 900-1000 points Grade=A
- 800-890 points Grade=B
- 700-790 points Grade=C
- 600-690 points Grade=D
- Below 590 points Grade=F

Points will be obtained from the following:

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>i.</td>
<td>Reading Assignments (Connect)</td>
<td>100</td>
</tr>
<tr>
<td>ii.</td>
<td>Recitation Assignments</td>
<td>100</td>
</tr>
<tr>
<td>iii.</td>
<td>ALEKS Prerequisite</td>
<td>10</td>
</tr>
<tr>
<td>iv.</td>
<td>ALEKS Objectives</td>
<td>40</td>
</tr>
<tr>
<td>v.</td>
<td>ALEKS Pie</td>
<td>100</td>
</tr>
<tr>
<td>vi.</td>
<td>Lecture participation</td>
<td>50</td>
</tr>
<tr>
<td>vii.</td>
<td>Midterm Exams (4 x 100 %)</td>
<td>400</td>
</tr>
<tr>
<td>viii.</td>
<td>Final Exam</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td><strong>Total points</strong></td>
<td><strong>1000</strong></td>
</tr>
</tbody>
</table>

Examination Policy

- All exams will be completed online on Canvas.
- All exams will require “LockDown Browser.” The student can also go to the testing center at the Main Campus in Denton at the Sage Hall Testing Center (Room C330, third floor, across the hall from the elevator).
- All Exams will only have one attempt and will be timed.

Late Work

Late work, homework, quizzes, and exams will not be accepted beyond the deadlines. 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.

Class Attendance

Regular and punctual class attendance is expected. Students who fail to attend class regularly are inviting scholastic difficulty. Attendance will be taken and there will be group activities that will be turned in for a grade during lecture.

Drop Exams: Your lowest mid-term Exam grade will be replaced by half of your Final Exam grade, if half of your Final Exam grade is to your advantage.

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

1. **Lecture Attendance**

   You will need to treat this class as though it is Face-to-Face. Find a quiet, distraction-free space to “attend” class.
   - lecture is the most important source of exam information
   - lecture material will come from several sources, including the textbook
   - be punctual, I make announcements at the beginning of lecture and students are responsible for ALL announcements made in class. Sometimes I take attendance at the beginning of class.
lecture PowerPoint slides have been posted to Canvas. These strictly serve as a guide, NOT a comprehensive resource for the class. They can be used for quick reference as you prepare for exams. Students may print these and bring them to class for note-taking. Students are expected to take comprehensive notes for themselves during lecture.

attendance to every lecture is expected. Lectures will be recorded on Zoom and will be available later for reference. The recording is NOT a substitute for class attendance.

2. Recitation Assignments

During Recitation, students will work on a set of problems in groups however, each student is responsible for turning in their own work.

during recitation, the class TA and PLTLs will be helping you with the assignment. The first 30 minutes of recitation will be spent working on problems in groups with the help of the TA and the PLTLs.

The last 20 minutes are for the recitation quizzes. The recitation quizzes will be posted to Canvas, and they will made available during the last 20 minutes of the recitation class.

Half of the recitation grade comes from participation in the group work in the first 30 minutes. The TA will take attendance. The other half of the recitation grade will come from answering the recitation quiz questions correctly. During group work, you will solve problems very similar to the ones on the quiz. So, pay attention, and ask questions!

Thus, NOTE that recitation quizzes will be graded for both completeness and correctness. It is NOT a completion grade.

have your scientific calculator ready for recitation

the lowest recitation grade will be ignored in the calculation of your final grade

there are NO make-ups for recitation

some exam material may come directly from work in recitation

3. ALEKS Adaptive Homework

Your online homework utilizes the ALEKS 360 software from McGraw-Hill.

(i) What is ALEKS?

ALEKS is a Web-based, Artificially Intelligent Assessment and Learning System. ALEKS uses adaptive questioning to quickly, and accurately, determine exactly what a student knows and does not know in a course. ALEKS then instructs the student on the topics he/she is most ready to learn. As a student works through a course, ALEKS periodically reassesses the student to ensure that topics learned are also retained. ALEKS courses are very complete in their topic coverage and ALEKS avoids multiple-choice questions. A student who shows a high level of mastery of an ALEKS course will be successful in the actual course he/she is taking.

Thus, ALEKS uses artificial intelligence (AI) to map the details of each student’s knowledge. ALEKS "knows," at each moment, with respect to each individual topic, whether each individual student has mastered that topic. If not, ALEKS knows whether the student is ready to learn the topic at that moment. ALEKS uses this knowledge to make learning more efficient and effective by continuously offering the student a selection of only the topics he/she is ready to learn right now. This builds student confidence and learning momentum.

In this way, ALEKS also provides the advantages of one-on-one very personalized instruction, 24/7, from virtually any Web-based computer for a fraction of the cost of a human tutor.

(ii) ALEKS Grading

The ALEKS homework grade will constitute 15% of your total Final Grade (= 150 points). Now since ALEKS has to do with mastery of concepts rather than right and wrong answers to specific questions, the grading model is different from that of regular online homework.
Your ALEKS grade will be determined as follows:

10 points = ALEKS prerequisite completed by the due date
**40 points = objectives due dates** (whatever % you will have completed by objective due date)
100 points = ALEKS pie completion

** In case your ALEKS pie is not complete at the end of the semester, there will be a grace period of approximately a week, where we will enter the Open-Pie mode. You will then be able to go in and work on any topic of your choice and fill in the gaps in your pie and re-gain the points you had lost. You can also think of this as your Review for the Final Exam.

4. **Reading Quizzes (McGraw Hill Connect)**
   – introducing oneself to course material before lecture is one method to maximize one's understanding of course material
   – reading assignments have been assigned and are available on Canvas through the McGraw Hill LearnSmart software. Like ALEKS, LearnSmart utilizes artificial intelligence to guide students at their own pace – through the basic knowledge and skills covered in the course, so that they come to each class with a solid foundation of concepts that will be discussed. These are graded assignments. Do make sure to stay on top of the due dates.
     – each reading assignment contains quiz questions which you answer as you move along on your reading. These quizzes are designed to help you master the concepts in this course, just as ALEKS helps you master the math.
     – Quiz material is taken directly from the Smartbook readings.
   – lowest two reading quizzes will be ignored in the calculation of your final grade

5. **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 on ALEKS and LearnSmart every week in order to succeed in this class. The more you can do the better.
   - In general, if you already know the material through lecture attendance, reading the text, etc, you will find that you spend much less time on ALEKS, and that you are able to retain concepts with much more ease. In this way, ALEKS “rewards” those who are working hard.

6. **Mid-term Exams**
   – There will be FOUR midterms exams.
   – focus: concepts covered in class, reading assignments, ALEKS objectives, and recitation Quizzes.
   – All exams will be taken on Canvas. The Lockdown browser will be required for every exam. Instructions on how to install the browser are given later in this syllabus.
   – **ALL 4 MID-TERMS MUST BE TAKEN**, at the scheduled day and time
   – lowest of the 4 exam scores will be automatically replaced by a higher final exam score
   – if you have an **acceptable, documented reason** for missing an exam (examples include: documented illness, auto accident, participation in UNT-sponsored event, observance of religious holiday), you will be allowed to replace the missed exam with your score on the final exam. Under extremely extraneous circumstances, you may qualify for a make-up test. Therefore, it will be very beneficial to talk to me about a missed test, ASAP.
   – otherwise, you will receive a “zero” for that exam, and that zero will not be replaced by the final, and will be
included in the calculation of your final class grade
–each mid-term exam counts for 10% of your overall grade

7. **Final Exam**
–comprehensive exam that covers all the material covered in the course. It is one hour and 50 minutes in length and MUST be taken on the scheduled day and time. It cannot be replaced by any other grade. It accounts for at least 20% of your overall grade
– No make-up final will be given. **NOTE THE DAY AND TIME**

**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. All help is available via Zoom.

**Other Assistance**
1. Instructor’s Office hours: M: 1:00 PM – 2:00 PM, Tu 10:00 AM-11:00 AM, and by appointment (Please e-mail).
2. 3 TA’s: Office hours to be arranged.
3. Chemistry Resource Center (CRC): via Zoom – Mon-Thur 8am-6pm, Fri 8am-3pm
   –staffed by Chemistry graduate students. For more information visit: [https://chemistry.unt.edu/undergraduate-program/instructional-resources](https://chemistry.unt.edu/undergraduate-program/instructional-resources)
4. Undergraduate Teaching Assistant (PLTL) - one or two 90-minute meetings per week
5. Supplemental Instructor (SI): –three one-hour meetings per week

**WITHDRAWAL INFORMATION**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
</table>
| Jan 25 | Census - Official Enrollment Determined  
Last day to drop a course section to no longer appear on the official transcript |
| Jan 26 | Drop with a Grade of W Begins  
Beginning this date students can drop a course with a grade of W. |
| Apr 2  | Last day to withdraw from the semester. Process must be completed by 5 p.m. in the Dean of Students Office. |

*Detailed Academic Calendar can be found at: [http://catalog.unt.edu/content.php?catoid=22&navoid=2386](http://catalog.unt.edu/content.php?catoid=22&navoid=2386)
# Preliminary Lecture Schedule (subject to change)

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

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Material</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>M, Jan 11</td>
<td><strong>Introduction. Syllabus. ALEKS. Good study habits. Begin Chapter 1.</strong></td>
<td>Chapter 1.1 - 1.3</td>
</tr>
<tr>
<td></td>
<td>W, Jan 13</td>
<td>Chapter 1, <em>Chemistry: The Science of Change</em></td>
<td>Chapter 1.4 – 1.6</td>
</tr>
<tr>
<td></td>
<td>F, Jan 15</td>
<td>Chapter 2: <strong>Chapter 3: Quantum Theory and the electronic structure of atoms</strong></td>
<td>Chapter 3.1 - 3.3</td>
</tr>
<tr>
<td>2</td>
<td>M, Jan 18</td>
<td><strong>MLK Day Holiday – No Class</strong></td>
<td>Chapter 3.4 – 3.6</td>
</tr>
<tr>
<td></td>
<td>W, Jan 20</td>
<td><strong>Chapter 2:</strong> Begin Chapter 2: Atoms and the Periodic Table**</td>
<td>Chapter 4.1 - 4.4</td>
</tr>
<tr>
<td></td>
<td>F, Jan 22</td>
<td>Chapter 3: <strong>Chapter 3: Quantum Theory and the electronic structure of atoms</strong></td>
<td>Chapter 3.7 - 3.8</td>
</tr>
<tr>
<td>3</td>
<td>M, Jan 25</td>
<td>Chapter 2: <strong>Chapter 3: Quantum Theory and the electronic structure of atoms</strong></td>
<td>Chapter 3.4 – 3.6</td>
</tr>
<tr>
<td></td>
<td>W, Jan 27</td>
<td><strong>Chapter 4:</strong> Periodic Trends of the Elements**</td>
<td>Chapter 4.5 - 4.7</td>
</tr>
<tr>
<td></td>
<td>F, Jan 29</td>
<td><strong>Chapter 5:</strong> Ionic and Covalent Compounds**</td>
<td>Chapter 5.1 - 5.5</td>
</tr>
<tr>
<td>4</td>
<td>M, Feb 1</td>
<td><strong>Chapter 3:</strong> Periodic Trends of the Elements**</td>
<td>Chapter 5.6 - 5.10</td>
</tr>
<tr>
<td></td>
<td>W, Feb 3</td>
<td><strong>Chapter 4:</strong> Periodic Trends of the Elements**</td>
<td>Chapter 5.6 - 5.10</td>
</tr>
<tr>
<td></td>
<td>F, Feb 5</td>
<td><strong>Chapter 5:</strong> Ionic and Covalent Compounds**</td>
<td>Chapter 5.6 - 5.10</td>
</tr>
<tr>
<td>5</td>
<td>M, Feb 8</td>
<td><strong>Chapter 4:</strong> Periodic Trends of the Elements**</td>
<td>Chapter 7.1 - 7.3</td>
</tr>
<tr>
<td></td>
<td>W, Feb 10</td>
<td><strong>Chapter 5:</strong> Ionic and Covalent Compounds**</td>
<td>Chapter 7.1 - 7.3</td>
</tr>
<tr>
<td></td>
<td>F, Feb 12</td>
<td><strong>Chapter 5:</strong> Ionic and Covalent Compounds**</td>
<td>Chapter 7.1 - 7.3</td>
</tr>
<tr>
<td>6</td>
<td>M, Feb 15</td>
<td><strong>Chapter 5:</strong> Ionic and Covalent Compounds**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td></td>
<td>W, Feb 17</td>
<td><strong>Chapter 6:</strong> Representing Molecules**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td></td>
<td>F, Feb 19</td>
<td><strong>Chapter 6:</strong> Representing Molecules**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td>7</td>
<td>M, Feb 22</td>
<td><strong>Chapter 6:</strong> Representing Molecules**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td></td>
<td>W, Feb 24</td>
<td><strong>Chapter 6:</strong> Representing Molecules**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td></td>
<td>F, Feb 26</td>
<td><strong>Chapter 6:</strong> Representing Molecules**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td>8</td>
<td>M, Mar 1</td>
<td><strong>Chapter 6:</strong> Representing Molecules**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td></td>
<td>W, Mar 3</td>
<td><strong>Chapter 6:</strong> Representing Molecules**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td></td>
<td>F, Mar 5</td>
<td><strong>Chapter 6:</strong> Representing Molecules**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td>9</td>
<td>M, Mar 8</td>
<td><strong>Chapter 6:</strong> Representing Molecules**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td></td>
<td>W, Mar 10</td>
<td><strong>Chapter 6:</strong> Representing Molecules**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td></td>
<td>F, Mar 12</td>
<td><strong>Chapter 6:</strong> Representing Molecules**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td>10</td>
<td>M, Mar 15</td>
<td><strong>Chapter 6:</strong> Representing Molecules**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td></td>
<td>W, Mar 17</td>
<td><strong>Chapter 6:</strong> Representing Molecules**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td></td>
<td>F, Mar 19</td>
<td><strong>Chapter 6:</strong> Representing Molecules**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td>11</td>
<td>M, Mar 22</td>
<td><strong>Chapter 6:</strong> Representing Molecules**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td></td>
<td>W, Mar 24</td>
<td><strong>Chapter 6:</strong> Representing Molecules**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td></td>
<td>F, Mar 26</td>
<td><strong>Chapter 6:</strong> Representing Molecules**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td>12</td>
<td>M, Mar 29</td>
<td><strong>Chapter 6:</strong> Representing Molecules**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td></td>
<td>W, Mar 31</td>
<td><strong>Chapter 6:</strong> Representing Molecules**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td></td>
<td>F, Apr 2</td>
<td><strong>Chapter 6:</strong> Representing Molecules**</td>
<td>Chapter 7.4 - 7.6</td>
</tr>
<tr>
<td>13</td>
<td>M, Apr 5</td>
<td><strong>Chapter 10:</strong> Energy Changes in Chemical Reactions**</td>
<td>Chapter 10.4 - 10.5</td>
</tr>
<tr>
<td></td>
<td>W, Apr 7</td>
<td><strong>Chapter 10:</strong> Energy Changes in Chemical Reactions**</td>
<td>Chapter 10.4 - 10.5</td>
</tr>
<tr>
<td></td>
<td>F, Apr 9</td>
<td><strong>Chapter 10:</strong> Energy Changes in Chemical Reactions**</td>
<td>Chapter 10.4 - 10.5</td>
</tr>
<tr>
<td>14</td>
<td>M, Apr 12</td>
<td><strong>Chapter 11:</strong> Gases**</td>
<td>Chapter 10.4 - 10.5</td>
</tr>
<tr>
<td></td>
<td>W, Apr 14</td>
<td><strong>Chapter 11:</strong> Gases**</td>
<td>Chapter 10.4 - 10.5</td>
</tr>
<tr>
<td></td>
<td>F, Apr 16</td>
<td><strong>Chapter 11:</strong> Gases**</td>
<td>Chapter 10.4 - 10.5</td>
</tr>
<tr>
<td>15</td>
<td>M, Apr 19</td>
<td><strong>Chapter 12:</strong> Review**</td>
<td>Chapter 10.4 - 10.5</td>
</tr>
<tr>
<td></td>
<td>W, Apr 21</td>
<td><strong>Chapter 12:</strong> Review**</td>
<td>Chapter 10.4 - 10.5</td>
</tr>
<tr>
<td></td>
<td>F, Apr 23</td>
<td><strong>Chapter 12:</strong> Review**</td>
<td>Chapter 10.4 - 10.5</td>
</tr>
<tr>
<td>16</td>
<td>W, Apr 28</td>
<td><strong>Final ACS Exam [Comprehensive]</strong></td>
<td>Chapter 10.4 - 10.5</td>
</tr>
</tbody>
</table>

**Wednesday, Apr 28, 8:00 AM - 9:50 AM 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** **
### ALEKS Due Dates

<table>
<thead>
<tr>
<th>Week</th>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>School Starts</td>
<td></td>
<td></td>
<td></td>
<td>Pre-requisite</td>
<td></td>
<td>Objective due</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td>Objective due #1A</td>
<td></td>
<td>Objective due #1B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td>Objective due #2A</td>
<td></td>
<td>Objective due #2B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Open pie</td>
<td></td>
<td>Exam 1</td>
<td>W, Feb 3</td>
<td>Objective due #3A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td>Objective due #3B</td>
<td></td>
<td>Objective due #4 w/POKC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td>Objective due #5A</td>
<td></td>
<td>Objective due #5B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td>Objective due #6A</td>
<td></td>
<td>Objective due #6B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Open pie</td>
<td></td>
<td>Exam 2</td>
<td>W, Mar 3</td>
<td>Objective due #7A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td>Objective due #7B</td>
<td></td>
<td>Objective due #8A w/POKC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td>Objective due #8B</td>
<td></td>
<td>Objective due #9A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td>Objective due #9B</td>
<td></td>
<td>Objective due #9C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Open Pie</td>
<td></td>
<td>Exam 3</td>
<td>W, Mar 31</td>
<td>Objective due #10A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
<td>Objective due #10B</td>
<td></td>
<td>Objective due #11A w/POKC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Objective due #11B</td>
<td>Open Pie</td>
<td>Open Pie</td>
<td></td>
<td>Open Pie</td>
<td></td>
<td>Open Pie</td>
</tr>
<tr>
<td>15</td>
<td>Open Pie</td>
<td>Open Pie</td>
<td>Open Pie</td>
<td>Exam 4</td>
<td>W, Apr 21</td>
<td>Open Pie</td>
<td>Open Pie</td>
</tr>
<tr>
<td>16</td>
<td>Open Pie</td>
<td></td>
<td>ALL ALEKS and Connect HWs Due</td>
<td>Final Exam W, Apr 28</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Legend:**

- **POKC = Post Objective Knowledge Check:** asks students approximately 20-30 questions to determine their precise knowledge state in their ALEKS course. A Knowledge Check will determine, for each topic in the course, which topics each student knows, which topics each student doesn’t know, and which topics each student is ready to learn.

- **Open Pie =** Times when you get an extension to work on and fill in the gaps in your pie. In the Open pie mode, you are able to work on any topic. Thus, this is a good tool for review of topics before a test.
COURSE POLICIES

Assignment Policy

All assignments will be completed on the Canvas via the links to McGraw-Hill Connect and ALEKS Chemistry. To access, students must login to CANVAS and click on the appropriate link as shown below:

Due dates are on the syllabus schedule and also available when you login to McGraw-Hill Connect and ALEKS.

The University is committed to providing a reliable online course system to all users. However, in the event of any unexpected server outage or any unusual technical difficulty which prevents students from completing a time sensitive assessment activity, the instructor will extend the time windows and provide an appropriate accommodation based on the situation. Students should immediately report any problems to the instructor and contact the UNT Student Help Desk: helpdesk@unt.edu or 940.565.2324. The instructor and the UNT Student Help Desk will work with the student to resolve any issues at the earliest possible time.

Always contact Tech Support first whenever you encounter technical difficulties with McGraw-Hill Connect and ALEKS. Below are the links to tech support.

https://www.mheducation.com/support.html (For McGraw-Hill Connect)
https://mhedu.force.com/aleks/s/alekscontactsupport (For ALEKS)

TECHNICAL REQUIREMENTS/ASSISTANCE

Minimum Technology Requirements
At a minimum, you will need to have the following:

- Computer
- A scientific calculator *(Your cell phone is NOT a calculator!)*  The TI-30X IIS scientific calculator is ideal for this course. However, any scientific calculator that has NO internet access will work.
- Reliable internet access
- Speakers
• Microphone
• Plug-ins
• Microsoft Office Suite
• Canvas Technical Requirements (https://clear.unt.edu/supported-technologies/canvas/requirements)

Student Registration Instructions for Canvas

First, enter your Canvas course
1. Sign in to Canvas (https://unt.instructure.com/) and enter your Canvas course.
2. Go to Modules and open Module Zero – McGraw-Hill Connect and ALEKS resources:
   • Watch the first video on McGraw-Hill Connect registration.
   • This is a good time to watch the other related videos so that you familiarize yourself with these resources, and what is expected of you as far as the Connect and ALEKS assignments are concerned.

Next, get access to your McGraw-Hill Connect content
1. Open your McGraw-Hill Connect by clicking on the icon on the top left hand-side menu on Canvas.
   • Follow the instructions from the registration video to purchase the access code for Connect. Please let me know if you need a 2-week temporary free access, if you don’t have the money at that time.
2. You DO NOT need to purchase access to ALEKS homework. The Connect access allows you access to ALEKS.

Note: Remember: You will always access McGraw-Hill Connect and ALEKS assignments through Canvas.

Get your computer ready
For the best experience, check the system requirements for your product at https://mhedu.force.com/DTS/s/article/McGraw-Hill-System-Requirements

Need help?
For help with McGraw-Hill Connect and ALEKS, go to https://www.mheducation.com/highered/contact.html

McGraw-Hill Connect and ALEKS Accessibility Information:
https://www.mheducation.com/about/accessibility.html

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: UIT Student Help Desk site (http://www.unt.edu/helpdesk/index.htm)
Email: helpdesk@unt.edu
Phone: 940.565-2324
In Person: Sage Hall, Room 130
Hours are:
Monday-Thursday 8am-midnight  
Friday 8am-8pm  
Saturday 9am-5p  
Sunday 8am-midnight  
**Laptop Checkout:** 8am-7pm  
Hardware and software necessary to use CANVAS:  [http://www.unt.edu/helpdesk/canvas/](http://www.unt.edu/helpdesk/canvas/)  
Browser requirements:  [https://clear.unt.edu/supported-technologies/canvas/requirements](https://clear.unt.edu/supported-technologies/canvas/requirements)  
Other related hardware or software necessary for the course: such as headset/microphone for synchronous chats, word processor, etc.

**Minimum Technical Skills Needed**  
*Using the learning management system - CANVAS, using email with attachments, creating and submitting files in commonly used word processing program formats, downloading and installing software, using spreadsheet programs, etc.*

**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

**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) for more information.

Lockdown Browser Download Instructions

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.

Important:

• Please notice that LockDown Browser is NOT available for Chromebook.
• The desktop computers at Willis Library do not have LockDown Browser, but they are good to work on assignments and discussions.
• Please use FireFox while you are working in your assignments and discussions.
• For Exam 1, Exam 2, Exam 3, Exam 4, and the final exam you need LockDown Browser
• The University has iPads available at Willis Library ready for check out. These devices have access to LockDown Browser and work perfectly for quizzes and exams.

Protocol to download LockDown Browser in your computer (Not Chromebook)

1. Before downloading LockDown Browser you will need to close all the pages and files you have open.
2. Open this link: https://www.respondus.com/lockdown/download.php?ostype=2&id=165715487
3. Download only the version that corresponds to your computer: Mac or Windows
4. Click where it says "Mac Version" and double click to see the "Windows version" (See image below)
1. Follow the installation as instructed by LockDown Browser.

2. You should have the lockDown Browser icon on your desktop now. Please open LockDown Browser and choose "UNT Denton Canvas"
COURSE EVALUATION

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

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

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.

Course Safety Procedures (for Laboratory Courses)

Students enrolled in CHEM 1430 are required to use proper safety procedures and guidelines as outlined in UNT Policy 06.038 Safety in Instructional Activities. While working in laboratory sessions, students are expected and required to identify and use proper safety guidelines in all activities requiring lifting, climbing, walking on slippery surfaces, using equipment and tools, handling chemical solutions and hot and cold products. Students should be aware that the UNT is not liable for injuries incurred while students are participating in class activities. All students are encouraged to secure adequate insurance coverage in the event of accidental injury. Students who do not have insurance coverage should
consider Standard Syllabus Statements Related Policy 06.049 Course Syllabi Requirements obtaining Student Health Insurance. Brochures for student insurance are available in the UNT Student Health and Wellness Center. Students who are injured during class activities may seek medical attention at the Student Health and Wellness Center at rates that are reduced compared to other medical facilities. If students have an insurance plan other than Student Health Insurance at UNT, they should be sure that the plan covers treatment at this facility. If students choose not to go to the UNT Student Health and Wellness Center, they may be transported to an emergency room at a local hospital. Students are responsible for expenses incurred there.

**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. The Code of Student Conduct can be found at [deanofstudents.unt.edu/conduct](http://deanofstudents.unt.edu/conduct).

**Access to Information - Eagle Connect**

Students’ access point for business and academic services at UNT is located at: [my.unt.edu](http://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/](http://eagleconnect.unt.edu/)

**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 at 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


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](#).

**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.