CHEMISTRY 1430 – General Chemistry I Laboratory
Fall 2018

INSTRUCTOR INFORMATION
Dr. Amy Petros
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Phone: 940-369-8829
Office: CHEM 363
Office Hours: MWF 9-1050AM, and by appointment

If you need to meet outside of normal office hours, please make an appointment.

REQUIRED TEXT

Modern General Chemistry Laboratory: Incorporating Computer-Oriented Data Acquisition and Evaluation Approach into the Student Laboratory Experience, William E. Acree, Jr.

Additional materials required: safety goggles/glasses

Recitation: This course has a **lab recitation that is solely online** in the form of Learning Modules. Each Learning Module will include a video demonstration on how to set up the laboratory experiment and related safe lab practices, brief tutorials or applications relating to the experiment and its concepts, and a **quiz that is part of the grade** for this course.

Learning Modules will be available all term once posted under Course Content, but **quizzes are only available the week preceding lab until midnight before the day of your lab**.

The link to the video demonstrations for CHEM 1430 playlist (best viewed in 1080p) is https://www.youtube.com/playlist?list=PLZlpfOHyl5T4QsiYanDoiSNGjjCQTn9Fh

TENTATIVE SCHEDULE

<table>
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<th>Week of</th>
<th>Recitation and Lab</th>
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| 8/27    | **Recitation**: Does not meet; first quiz will be made available  
  Lab: Does not meet |
| 9/3     | **Recitation**: Learning module on safety and Experiment 1A  
  *Monday labs do not do this yet*  
  **Lab**: Experiment 1A: Statistical analysis of mass of pennies  
  *Monday labs do not meet due to Labor Day Holiday* |
| 9/10    | **Recitation**: Learning module on Experiment 2  
  **Lab**: Experiment 2: Identifying an unknown using physical and chemical properties |
| 9/17    | **Recitation**: Learning module on experiment 3A  
  *and also 1A for Monday labs*  
  **Lab**: Experiment 3A: Determination of simple empirical formula and waters of hydration  
  *also Experiment 1A for Monday labs* |
| 9/24    | **Recitation**: Learning module on Experiment 4 |
Lab: **Experiment 4**: Identification of the molar mass of an unknown volatile liquid

10/1 **Recitation**: Learning module on experiment 5
**Lab**: **Experiment 5**: Preparation of Alum

10/8 **Recitation**: Learning module on experiment 6
**Lab**: **Experiment 6**: Densities of solids- Identification of unknown materials and density determination through linear regression analysis

10/15 **Recitation**: Learning module on experiment 7
**Lab**: **Experiment 7**: Verification of the ABC gas laws

10/22 **Recitation**: Learning module on experiment 8
**Lab**: **Experiment 8**: Freezing point depression and cooling curves

10/29 **Recitation**: Learning module on experiment 9
**Lab**: **Experiment 9**: Determination of molar mass by freezing point depression

11/5 **Recitation**: Learning module on experiment 10
**Lab**: **Experiment 10**: Introduction to calorimetry – determination of specific heats of solids and liquids, enthalpy of fusion in water

11/12 **Recitation**: Learning module on experiment 11A
**Lab**: **Experiment 11A**: Calorimetry II– determination of heats of chemical reaction and dissolution

Laboratory reports/data sheets must be turned in within **24 hours** of when the laboratory experiment is completed. The last laboratory report must be turned in to the TA **no later than 5:00 pm on Monday November 26.**

**MAKE-UP LABS**

There are no make-up laboratories; however, you may reach out to your TA to ask to do the experiment in another section during the same week only. If you miss a lab due to one of the following five reasons it will be excused. Otherwise, a missed laboratory will result in a zero for that experiment. All the documentation for the missed laboratory must be turned in to the TA **no later than 5:00 pm on Monday November 26.** Documentation received after this date will not be processed and the absence will NOT be excused.

Acceptable reasons for missing an experiment are:

1. Illness (with physician’s note)
2. Death of a close family member or friend (must provide memorial program, obituary, or another document)
3. Religious holiday recognized by UNT (preplanned and cleared with instructor in advance)
4. An official University activity (preplanned and cleared with instructor in advance)
5. Cancellation of classes by the University (this includes inclement weather days or tornado sirens)

BEFORE LAB EACH WEEK:
Before students can begin each lab, they must complete the online learning module and quiz.

GRADING POLICY
Your grade will be determined by 11 quizzes from lab recitation and your performance in the laboratory (completed laboratory reports and TA assessment of safe laboratory practices). This semester 11 laboratory experiments will be performed. The 275 total points in the laboratory are broken down as follows:

- 11 Laboratory experiments                        Points Possible = 11 x 20  = 220
- 11 Quizzes for lab recitation                   Points Possible = 11 x 5pts = 55

Total:  = 275

- 90 – 100 % of the total points Grade = A
- 80 – 89 % of the total points Grade = B
- 70 – 79 % of the total points Grade = C
- 60 – 69 % of the total points Grade = D
- Below 60 % Grade = F

For individuals with a single excused absence, the total possible points in the laboratory will be adjusted appropriately to reflect the one excused absence. For students with more than one excused absence, please see the Professor in charge.

Teaching Assistants will enter grades on Canvas under the course page for lab recitation/lecture. It is the responsibility of the student to regularly check for consistency between grades entered on BB and grades recorded on physical copies of the laboratory write-up.

ATTENDANCE AND CLASSROOM BEHAVIOR
Attendance is required at scheduled lab hours. Labs will begin as noted on myUNT, so do not be late. If you arrive late, you can not only miss any additional instructions given by the TA, but your group has already begun working, therefore, if you arrive more than 20 minutes late for lab, you will receive a 0 for that lab.

Disruptive and/or unsafe behavior will not be tolerated. Cell phones need to be muted during lab. A student engaged in disruptive or unsafe behavior can be asked to leave lab immediately and
given a 0 for that lab. Disruptive or unsafe behavior includes, but is not limited to: not listening to the TA, horsing around in the lab, cell phone use (such as texting, playing games, taking phone calls, etc), not wearing safety goggles or glasses when in the lab, etc.

OTHER NOTES

By university regulations, a grade of “I” (Incomplete) cannot be given as a substitute for a failing grade in a course. Students may pick up a drop slip at the chemistry main office (CHEM 101) or at the registrar and must provide it to the lab recitation instructor of record (not the TA!) by the withdrawal date listed on the university website.

CHEM 1430 is the laboratory course and a separate course from CHEM 1410. Students will receive separate grades for the two courses. Dropping either course does NOT automatically drop you from the other course. (For lab classes, be aware that you should be registered for both the lab lecture course (CHEM 1430.001 or CHEM 1430.002) and a lab (CHEM 1430.3xx).

COURSE SAFETY STATEMENT (FOR LABORATORY COURSES)

Students in the laboratory are urged to use proper safety procedures and guidelines. 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 University of North Texas 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 obtaining Student Health Insurance for this insurance program. Brochures for this insurance are available in the UNT Student Health and Wellness Center on campus. 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 you have an insurance plan other than Student Health Insurance at UNT, please be sure that your plan covers treatment at this facility. If you choose not to go to the UNT Student Health and Wellness Center, you may be transported to an emergency room at a local hospital. You are responsible for expenses incurred there.

ACADEMIC DISHONESTY

Students caught cheating or plagiarizing will receive a "0" for that particular assignment or exam. Additionally, the incident will be reported to the Dean of Students, who may impose further penalty. According to the UNT catalog, the term "cheating" includes, but is not limited to: a. use of any unauthorized assistance in taking quizzes, tests, or examinations; b. dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; c. the acquisition, without permission, of tests or other academic material belonging to a faculty or staff member of the university; d. dual submission of a paper or project, or resubmission of a paper or project to a different class without express permission from the instructor(s); or e. any other act designed to give a student an unfair advantage. The term "plagiarism" includes, but is not limited to: a. the knowing or negligent use
by paraphrase or direct quotation of the published or unpublished work of another person without full and clear acknowledgment; and b. the knowing or negligent unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials. This also includes copying other students’ data in lab, unless given express permission to do so by the TA; turning in a data sheet for an experiment that you were not physically present for; or copying other students’ words or work for a lab report.

ADA COMPLIANCE STATEMENT
The University of North Texas 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 you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You 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 Office of Disability Accommodation website at http://disability.unt.edu. You may also contact them by phone at (940) 565-4323.

EMERGENCY NOTIFICATION & PROCEDURES
UNT uses a system called Eagle Alert to quickly notify you 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). The system sends voice messages (and text messages upon permission) to the phones of all active faculty staff, and students. Please make certain to update your phone numbers at http://www.my.unt.edu. Some helpful emergency preparedness actions include: 1) know the evacuation routes and severe weather shelter areas in the buildings where your classes are held, 2) determine how you will contact family and friends if phones are temporarily unavailable, and 3) identify where you will go if you need to evacuate the Denton area suddenly. In the event of a university closure, labs scheduled during that time are excused absences in addition to the one dropped lab.

SUCCEED AT UNT
UNT endeavors to offer you a high-quality education and to provide a supportive environment to help you learn and grown. And, as a faculty member, I am committed to helping you be successful as a student. Here’s how to succeed at UNT: Show up. Find Support. Get advised. Be prepared. Get involved. Stay focused. To learn more about campus resources and information on how you can achieve success, go to http://success.unt.edu/