

Chemistry 1441 Laboratory Syllabus

Spring 2009

Lab Coordinator

Bill Cleaver

(817)272-3849
114 CPB

Office Hours:

Mon & Wed 9:00 – 11:00

Required materials: *CHEM 1441 Lab Manual*, Third Edition and duplicating page lab notebook, both are available at the UTA Bookstore. Scientific calculator.

Suggested Materials: Additional graph paper and a Sharpie marker (for glassware marking) may come in handy.

Room Assignments

Lab Section	Day	Start time	Room (Chemistry and Physics Building)
101	Monday	1:00 PM	104
102	Monday	1:00 PM	105
103	Tuesday	1:00 PM	104
104	Tuesday	1:00 PM	105
105	Wednesday	1:00 PM	104
106	Wednesday	1:00 PM	105
107	Thursday	1:00 PM	104
108	Thursday	1:00 PM	105
110	Friday	1:00 PM	104
111	Friday	1:00 PM	105
113	Tuesday	8:00 AM	105
114	Thursday	6:00 PM	104
115	Thursday	6:00 PM	105

Safety Guidelines: IMPORTANT! You will be exposed to hazardous chemicals in this class. Personal protective equipment (PPE) is necessary to protect your body. You will not be admitted into the lab if any of the following guidelines are not met. If you violate any of the following guidelines, you may be asked to leave the lab. All missed work will receive zero credit.

1. Goggles, gloves and aprons are provided and are required at all times.
2. Shoes that cover the entire foot are required at all times. Absolutely no exceptions will be made to this guideline. Warnings will not be issued.
3. Long pants and sleeves are highly recommended.
4. No musical or other entertainment devices may be used in chemistry lab at any time.
5. Cell phones are not permitted in lab and must be silenced and placed in your bag before you enter lab.

Mandatory Online Safety Training:

1. Go to <http://www.uta.edu/training>.
2. Log on using your network log-on ID and password (what you use to access email). If you do not know your NetID or need to reset your password, visit <http://oit.uta.edu/cs/accounts/student/netid/netid.html>.
3. The available courses for completion will be listed. For Chemistry 1441, complete the course entitled 'Student Lab Safety Training – **Wet**'.
4. Go to 'Training I've Completed', and print this displayed page for your TA. Verify that it shows clearly your name, that 'Wet' training is completed/passed and the date when the training was completed. If you have just completed the training but it is not updated on the 'Training I've Completed' page, try the training again (you should get to the Certificate page). If this does not work, call the Helpline.
5. If you need to complete the training but you do not find 'Wet' training listed under 'Training I'm Enrolled In', call the Helpline and ask them to enroll you in the Wet safety training class.
6. Students who have not completed the training by census date may be dropped from the lab (and consequently the lecture).

****Any issues with training should be addressed by calling the Training Helpline at 272-5100.**

CHEM 1441 Lab Schedule

Week of:	Lab Schedule
Jan 20-23	No labs. Buy the lab manual and notebook in the bookstore. <u>Complete the online safety training, and print the page as described above for your TA.</u>
Jan 26-30	Lab Check-in, Lab & Safety orientation. Hand in your proof of online “wet” lab training.
Feb 2-6	UTA-101. Mass and Volume Measurements
Feb 9-13	UTA-102. Separation of a Three-Component Mixture
Feb 16-20	UTA-103. Determining the Empirical Formula of a Copper Oxide
Feb 23-27	UTA-104. Qualitative Analysis
March 2-6	UTA-105. Titration as an Analytical Method
March 9-13	UTA-106. The Ideal Gas Law and Gas Constant
March 16-20	No labs: Spring Break week
March 23-27	UTA-107. Synthesis of Tris-1,10-phenanthroline iron (II) chloride
Mar 30-Apr 3	UTA-108. Spectrophotometric Determination of Purity and Concentration
April 6-10	UTA-109. Hess' Law and Calorimetry
April 13-17	UTA-110. Chemiluminescence: Optimization of a Chemical Reaction
April 20-24	UTA-111. Atomic Emission Spectra of Gases: Evidence of Quantum Structure
Apr 27-May 1	UTA-112. Molecular Shapes by VSEPR Theory
May 4- May 8	Lab Check-out.
May 11-May 15	No labs. University Final Exams.

Teaching Assistants (TAs): Your TA's office hours will be announced in lab and will be posted outside of 114 CPB. You may attend the office hours of any 1441 TA.

Grading: The lab average, which comprises 25% of the Chemistry 1441 grade, is determined the following way:

Quizzes	30%
Pre-Lab Assignment	20%
Post-Lab Reports	40%
Notebook/Technique	10%

- **Quizzes:** There will be a quiz given at the beginning of every lab period. They will cover material and techniques used in experiments preceding and including that day's experiment. They will not be multiple-choice. The quiz will only be given in the first 10 minutes of the lab period. Missed quizzes cannot be made-up.
- **The Pre-Lab Assignment** is due when you walk through the door. Each pre-lab is worth 100 points. Pre-labs will not be accepted more than 15 minutes after the beginning of the lab. Any student not completing the Pre-Lab assignment will not be permitted to perform that week's experiment.
- **The Post-Lab Report** is due when you walk through the door for the next lab meeting. Each post-lab is worth 100 points. Post-labs are considered late 15 minutes into the lab period and will be assessed a point-penalty of 15 points per day. Reports will not be accepted more than **two** days late. Students are responsible for contacting their TA to deliver a late report. Please do not take them to the Chemistry Office or to the Lab Coordinator.
- **The Lab Notebook/Technique:** You will hand in the carbonless copy of your data, signed by your TA, at the end of the lab period. Failure to do so will be counted as a lab absence. Your TA will grade your lab notebook as well as your lab technique during the experiment.

All work, with the exception of computer-generated graphs, must be original and hand-written. Photocopied or computer-generated work will not be accepted.

Your lowest pre-lab grade, post-lab grade and quiz grade will be dropped. Additional missed labs will receive zero credit. Any zero resulting from Academic Dishonesty is not eligible to be the lowest grade dropped. Each experiment runs for one week and any conflicts should be addressed to your TA at least a week in advance of the conflict (including observing religious holidays). *There are no makeup labs once the week is over.*

Do not turn in a report for an experiment for which you were absent. This is considered cheating and will be addressed as such.

Attendance Policy: The following is from UT-Arlington Undergraduate Catalog's Academic Regulations section

Class Attendance

Class attendance and lateness regulations will be established by instructors and announced to their classes. At the discretion of the instructor, such regulations may or may not include provisions for making up work missed by the student as a consequence of an absence. Students who are late to class are responsible for reporting their presence to the instructor after the class is dismissed.

Information that stresses safety and technique is disseminated at the beginning of each lab period. Students are expected to be in the lab on time, and they will not be admitted to the lab more than 15 minutes after it begins. All missed work will receive zero credit. These 15 minutes are intended as a grace period for rare instances. It is not intended to become the norm. Abuse of this grace period will result in its cancellation.

You are required to attend lab in the section for which you have registered. Do not go to another lab section.

Academic dishonesty: UTA considers academic dishonesty a completely unacceptable mode of conduct, and the University will not tolerate it in any form. Academic dishonesty includes (but is not limited to) cheating, falsification of data, plagiarism, and contracting/collusion with others to do your test or do your work. Cheating is the use or acquisition of information (data, constants, formulas, textual material, etc.) from either unauthorized sources or in an unauthorized manner.

Following is a statement from the University policy on cheating. *"Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and dismissal from the University."*

Students with Disabilities: Students who need an accommodation based on disability should arrange to meet with the laboratory coordinator during to see that they are appropriately accommodated.

Students with Pregnancies: For students who are pregnant, it is recommended by the Chemistry and Biochemistry Dept. that you do not enroll into a chemistry lab at this time. If you become pregnant during the semester, we recommend dropping the course as soon as possible; and special provisions will be made to assist you in finishing the course at a later date. ***Please see your faculty instructor for assistance.***

If you drop or fail Chemistry 1441, grades earned in the lab cannot be carried over when you re-take Chemistry 1441.