Chemistry 1442 Laboratory Syllabus
Spring 2008

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Office Hours:
M, W from 9-11 AM
and by appointment

Required materials: *CHEM 1442 Lab Manual*, Second Edition (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	132
102	Monday	1:00 PM	134
103	Monday	1:00 PM	136
104	Tuesday	1:00 PM	132
105	Tuesday	1:00 PM	134
106	Tuesday	1:00 PM	136
107	Wednesday	1:00 PM	132
108	Wednesday	1:00 PM	134
109	Wednesday	1:00 PM	136
110	Thursday	1:00 PM	132
111	Thursday	1:00 PM	134
113	Friday	1:00 PM	132
114	Friday	1:00 PM	134
115	Tuesday	8:00 AM	136
116	Thursday	6:00 PM	134
117	Thursday	6:00 PM	136

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. No sandals, mocs, Crocs, etc. 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 1442, 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 1442 Lab Schedule

***Experiments are not completed in the same order as listed in the manual.*
Be sure to follow this schedule.

Week of:	Lab Schedule
Jan 14-18	No labs. Buy the lab manual, and complete the pre-lab assignment for UTA-300 before you attend lab next week. It is located in your lab manual. Complete your online safety training.
Tues. Jan 22-25	UTA-300. Recrystallization of Acetaminophen from Tylenol. Monday labs, see April 21 for more information.
Jan 28-Feb 1	UTA-310. Freezing Point Depression in *tert*-Butyl Alcohol
Jan 30	***Census Date***
Feb 4-8	UTA-320. Qualitative Analysis
Feb 11-15	UTA-330. Chemical Kinetics: Determining the Rate Law for a Chemical Reaction
Feb 18-22	UTA-350. Synthesis of Green Crystals
Feb 25-29	UTA-360. Analysis of Green Crystals for Cobalt Content
Mar 3-7	UTA-340. Behavior of Strong and Weak Acids upon Titration
Mar 10-14	UTA-370. Colorimetric Determination of the Formula and Equilibrium Association Constant of a Complex Ion
Mar 17-21	***Spring Break. No labs.***
Mar 24-28	UTA-410. Spontaneous and Non-spontaneous Chemical Transformations
Mar 31-Apr 4	UTA-380. Enthalpy and Entropy of a Reaction
Apr 7-11	UTA-390. Redox Titration
Apr 14-18	UTA-400. Electrochemistry
Apr 21	All **MONDAY** labs will meet on Monday, April 21 to do UTA-300 make-up. No other labs meet this week.
Apr 28-May 2	Lab final. A brief, comprehensive exam will be administered in your normal lab section.
May 5-9	University final exams. No labs.

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 1442 TA.

Grading: The lab average, which comprises 25% of the Chemistry 1442 grade, is determined the following way:

Quizzes	10%
Pre-Lab Assignment	10%
Post-Lab Report	60%
Lab Final	20%

- **Quizzes:** There will be up to five unannounced quizzes throughout the semester. They will cover material and techniques used in experiments preceding and including that day's experiment. They will not be multiple-choice.
- **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.
- **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.

- **The Lab Final:** Details will be announced in lab. Bring an 882E Scantron, a pencil and a non-graphing calculator to the final exam.

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 assignment and your lowest post-lab report 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. *There will be no makeup lab.*

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 1442, grades earned in the lab cannot be carried over when you re-take Chemistry 1442.