

Chemistry 1451 Laboratory Syllabus Spring 2009

Lab Coordinator: Bill Cleaver 817-272-3849 Office Hours:
114 CPB Mon, Wed; 9:00 – 11:00

Teaching Assistants:

Annie Acharya, Andy Seal and Bhagya Wijayawardena

Required materials: -Laboratory Manual: *General, Organic, and Biological Chemistry: An Integrated Approach*, Macaulay, D. B. et al. 2nd Ed.
-Scientific calculator (non-graphing required for lab final)

Suggested Materials: -A Sharpie marker (for glassware marking) may come in handy.

***All lab sections meet in room 113 CPB.**

Monday through Friday afternoon labs meet from 2-4:50 pm.
Thursday evening labs meet from 6-8:50 pm.

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 1451, complete the course entitled 'Student Lab Safety Training – **Biological**.'
4. Go to 'Training I've Completed', and print this displayed page for your TA. Verify that it shows clearly your name, that 'Biological' 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 'Biological' training listed under 'Training I'm Enrolled In', call the Helpline and ask them to enroll you in the Biological 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 1451 Lab Schedule

Week of:	Lab Schedule
Jan 20-23	No labs. Buy the lab manual in the bookstore. <u>Complete the online safety training.</u>
Jan 26-30	No labs. Buy the lab manual in the bookstore. <u>Complete pre-lab assignment for Experiment 2.</u>
Feb 2-6	Experiment 2: Measurement & hand in your proof of online safety training.
Feb 9-13	Experiment 3: Paper and Thin Layer Chromatography
Feb 16-20	Experiment 4: Chemical Periodicity
Feb 23-27	Experiment 5: Hydrocarbons
March 2-6	Experiment 7: Stoichiometry: Mole Relationships
March 9-13	UTA-104: Qualitative Analysis (handout provided)
March 16-20	No labs: Spring Break week
March 23-27	Experiment 9: Ions of Nutrition
Mar 30-Apr 3	Experiment 11: Electrolytes, Acids and Bases
April 6-10	Experiment 12: Chemical Reactions
April 13-17	Experiment 14: Organic Nitrogen Compounds
April 20-24	Experiment 16: Organic Oxygen Compounds
Apr 27-May 1	Experiment 17: Carbohydrates
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 1451 TA.

Grading: The lab average, which comprises 25% of the Chemistry 1451 grade, is determined the following way:

Quizzes	30%
Pre-Lab Assignment	20%
Post-Lab Report	40%
Technique	10%

****You must attend the lab and earn at least a 60% in the lab class in order to be eligible to pass the course.**

- **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.
- **Technique:** Your TA will grade your in-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 1451, grades earned in the lab cannot be carried over when you re-take Chemistry 1451.