

Chemistry 118 Lab (1 hr credit) Laboratory Syllabus **Fall 2007**

Laboratory Text: *General Chemistry Laboratory Manual for Chemistry 118*

Date	Lab Experiment (Experiment number)
Week of 9/10	Check in, Basic Techniques (# 1a)
Week of 9/17	Physical Properties and Changes (# 2)
Week of 9/24	Formula Stoichiometry (# 7)
Week of 10/1	Reactions of Copper (# 4)
Week of 10/8	% by Mass of an Unknown Mixture (# 8)
Week of 10/15	Lab Midterm Exam (over <u>first</u> 5 labs) and then Stoich. Calcs. & Graphing lab (# 5)
Week of 10/22	Acid-Base Titrations (# 11)
Week of 10/29	The Periodic Table & Lewis Dot Structures (# 3)
Week of 11/3	No CHM118 Labs this week; ACS Meeting in Lubbock
Week of 11/12	Chemical Reactions: Stoichiometry (# 9)
Week of 11/19	NO CHM118 Labs this week: Thanksgiving Holiday
Week of 11/26	Specific Heat (# 12)
Week of 12/3	Lab Final Exam (over <u>last</u> 5 labs) and Check out (Check Out Required)
Friday 12/7	Cumulative Make-UP Exam (see the back of this page...)

Academic Honesty

The University expects all students to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Students in CHM 118 laboratory are required to attend and take data in the laboratory for each scheduled lab. Previous data from or experience with this laboratory does not free you from ANY requirements for this laboratory. You must attend and perform all the scheduled experiments. Using data from someone else's lab or from a previous semester in which you were enrolled in this course is **plagiarism** and will be dealt with as the Code of Student Conduct and Discipline states—You must take the data in this lab even if you took the lab before in another semester. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. Furthermore, the University and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or lab quiz, copying lab data from previous reports or the reports of other students, collusion, and the abuse of resource materials.

Only TI30 series calculators are allowed for use in CHM118 labs. TI34 or TI36 are not TI30 series calculators.

Attendance

Students are required to attend regularly scheduled laboratories. There are no accepted absences from laboratory unless written documentation from individuals such as a doctor or military commanders is supplied. A single unexcused lab's zero will be dropped. If you miss any more labs (unexcused) after this you will receive a zero for each one that you miss after the first.

You are required to know and attend the laboratory **section** that you registered for. **You may never attend any other lab section to makeup missed laboratories.** **Lab Midterm and Final tests require that you bring a Scantron Form.** The midterm test covers labs up to the midterm only; the final lab test covers labs after the midterm only.

Safety Equipment

Eye protection is **REQUIRED** in all labs during every experiment. Failure to wear approved eye wear will result in expulsion from the lab and forfeiture of the lab points for that day.

Conduct in Laboratory

Students must follow the instructions of the lab instructor. Your failure to follow the instructions from the lab instructor such as experimental procedures or waste disposal can also result in expulsion from the lab and forfeiture of the lab points for that day.

IF you check into a lab drawer it is mandatory that you check out. **FAILURE TO CHECK OUT OF YOUR DRAWER WILL RESULT IN A \$25.00 CHARGE IN ADDITION TO ANY BREAKAGE THAT HAS ACCRUED.** This will automatically cause you to be unable to register for the next semester at Sam Houston State University.

Students are required to keep a record of all of their points in lab if they want to know the raw score used to calculate their grade at semester's end. You may use the grading table on the back of this page for this.

Bring lab goggles to your first lab the week beginning 9/10/07.

Turn this page over. There is more on the other side.

You can buy safety goggles from the chemistry club in the CFS building in CFS310 or at home improvement stores like Home Depot. The Chemistry club will also sell goggles in the 1st floor CFS lobby in the few weeks before lab; however, it is your responsibility to arrange that purchase. Signs on the ground floor of CFS will tell you where and when the goggles go on sale.

If you are partners with someone in a drawer then it is both of your responsibilities to make sure that the drawer has been properly checked out. The chemistry department is not responsible for anything in the drawer while it is checked out to you; that's why you will lock your drawer between lab classes. Anything lost by you or your partner is still your responsibility. This includes lab glasses, goggles, data, lab notebooks, glassware, etc. Drawers left unlocked by a student will be charged a fee that will be added on to the breakage fee.

Make-up exams for **either** a missed Midterm or Final exam will be a Midterm/Final **Cumulative** exam given on **12/7/07** at 12:00 noon. in Rm. CFS101. This makeup covers all the labs in CHM118. Those who fail to take the midterm or final and the makeup will fail CHM 118. You must contact Dr. Chasteen (at 294-1533 or chm_tgc@shsu.edu) **by 5 pm 12/6/07** to be allowed to take that make-up. If you miss the midterm you still need to take the scheduled final and also the makeup test.

Your lab TA does not assign lab grades. And furthermore, any statement written or verbal from your TA to you about your probable final grade in CHM 118 is not binding, that is, since they don't assign your final CHM 118 grade, their estimation of your grade is only that, an estimate and could be incorrect. Your lab points will be used as a raw score to calculate your grade. Do not call the Chemistry office or your lecture instructor and ask for your lab score/grade/points. You are responsible for keeping track of quizzes (20%), lab reports (40%), and mid- and final exam grades (20% + 20%). The table below is one way of calculating your raw score. Remember that the TA doesn't assign grades. They just keep track of your points. Final CHM118 lab grades will be posted online approximately 2 weeks after your final.

Final grades are determined as follows: >90% = A; >80% to <90% = B; >70% to <80% = C; >60% to <70% = D; >60% = F.

10 pt. report + 10 pt. quizz + 5 pt. daily	Record Your Points Here Quiz + Report + Daily grade	Example	
First day in lab 1a max 15 pts	no quiz today	10	
2 max 25 pts		22	
7 max 25 pts		19	
4 max 25 pts		23	
8 max 25 pts		17	
Midterm test + lab 5 max 15 pts	no quiz today	12	
11 max 25 pts		24	
9 max 25 pts		18	
3 max 25 pts		21	
10 max 25 pts		17	
Total	A	= 183	This is A
Midterm Exam % of possible points	B	80	This is B
Final Exam % of possible points	C	75	This is C
Total Raw Score in Lab = (A/230) x 60 + (B x 0.2) + (C x 0.2) = 			

This Raw Score is used to
calculated your final CHM 118
grade.

To get %, divide your points by total points possible then multiply by 100.
For instance, if you scored 16 on a midterm test with 20 questions your percentage is $16/20 \times 100 = 80\%$.

Example Raw Score = $(183/230) \times 60 + (80 \times 0.2) + (75 \times 0.2) = 79$

Grading Table for Chemistry 118 Laboratory
You must keep track of your grades for this table