

Updated to reflect rescheduling of labs following University Closure from 8/28-9/4

Course Overview:

In this course you will learn common laboratory techniques for determining physical properties, reaction stoichiometry, separation, and identification of various chemicals.

This lab counts for 20% of your overall grade in Chem 1411. In order to make a C or better in Chem 1411, you must earn at least a C in both the lecture AND lab portions of the course.

Required Texts and Course Materials:

- *General Chemistry Laboratory Manual for Chemistry 1411*, SHSU Faculty and Staff
- Texas Instruments TI-30-series calculator
- Scantron Form No. 882-e or compatible testing forms (one for lab midterm and final)
- Safety Glasses or Goggles
 - Properly fitting protective eyewear with side shields can be purchased from the chemistry club in the CFS building or at a home improvement store.

Date	Lab Experiment (Experiment Number)
Week of 9/18	Lab 1a: Check-in, Basic Techniques
Week of 9/25	Lab 2: Physical Properties and Changes
Week of 10/2	Lab 7: Formula Stoichiometry
Week of 10/9	Lab 4: Reactions of Copper
Week of 10/16	Lab 8: % by Mass of an Unknown Mixture
Week of 10/23	Lab Midterm Exam (over first 5 Labs) and Lab 5: Graphing
Week of 10/30	Lab 11: Acid-Base Titrations
Week of 11/6	Lab 9: Chemical Reactions and Stoichiometry
Week of 11/13	Lab 12: Specific Heat
Week of 11/20	Thanksgiving break - Lab 3 (Lewis Structures and Periodic Table) to be completed as an at-home assignment (no meeting in lab)
Week of 11/27	Lab Final Exam and Checkout
Friday, 12/1	Date of Cumulative Make-Up Exam, if necessary

Note that the schedule of labs is **NOT** the same as their order in the lab manual. For instance, the third lab is Lab #7.

Find the location and time of your lab section in the table below

Day	Meeting Time	Location: CFS 107	Location: CFS 111
Monday	12:00-2:50	Section 21	Section 11
	3:00-5:50	Section 22	Section 12
Tuesday	12:30-3:20	Section 25	Section 17
	3:30-6:20	Section 26	Section 18
Wednesday	12:00-2:50	Section 23	Section 13
	3:00-5:50	Section 24	Section 14
Thursday	12:30-3:20	Section 27	Section 19
	3:30-6:20	Section 28	Section 20
Friday	12:00-2:50	Section 29	Section 15
	3:00-5:50		Section 16

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 OR LOSS THAT HAS ACCRUED. This will automatically cause you to be unable to register for the next semester at Sam Houston State University.

If you share a drawer with a partner 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 to the breakage fee.

Attendance: Students are required to attend all regularly scheduled laboratories. There are no excused absences for laboratories unless written documentation from, e.g., a doctor or military commander is supplied. A single unexcused lab's zero will be dropped. After this you will receive a zero for each additional unexcused absence. You are required to provide documentation for excused absences in the next lab that you attend. **You may never attend any other lab section to make up missed laboratories.**

Safety Equipment: Eye protection is **REQUIRED** in all labs during every experiment. Failure to wear approved eyewear will result in expulsion from the lab and forfeiture of the lab points for that day. No electronic devices other than an approved (TI-30 model) calculator may be used in the laboratory. All other devices must be turned off and put away. If you need to use your cell phone, you must leave the lab.

Make-up Exams: for **either** a missed Midterm **or** Final exam, you may schedule a Midterm/Final **Cumulative** exam given on **12/1/17** at 12:00 noon. in Rm. CFS101. You must contact Dr. Zall (at 294-1525 or zall@shsu.edu) **by 5 pm 11/30/17** to be allowed to take that make-up. If you miss the midterm you still need to take your lab's scheduled final in addition to the makeup test.

Grading: Your lab TA does not assign lab grades. Any statement written or verbal from your TA to you about your probable final grade in CHEM 1411 is not binding. 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 CHEM 1411 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.

Lab Experiment (max 25 points each)	Record your points earned for each week's lab here	Example
1a		10
2		22
7		19
4		23
8		17
5		12
11		24
9		18
3		21
12		17
<i>Total Daily Labs:</i>	This cell is "A"	= 183
<i>Midterm Exam % of possible:</i>	This cell is "B"	80
<i>Final Exam % of possible:</i>	This cell is "C"	75
Total Raw Score in Lab	= $(A/250) \times 60 + (B \times 0.2) + (C \times 0.2) =$	

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 CHEM 1411 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.