

Welcome to Chemistry 1AL at UC Berkeley

- Instructor:** Pete Marsden, petermarsden@berkeley.edu, 323 Latimer
- Course Information:** Monday Lecture, 4-5 PM in 1 Pimentel
Wednesday Lecture, 4-5 PM in 1 Pimentel
Friday Lecture, 2-3 PM in 1 Pimentel
- Pre/Corequisites:** Concurrent enrollment in Chem 1A or a C- in Chem 1A.
- Lab Exam Date:** **Friday December, 6. 7:30 PM. Room to be determined.**
- Office Hours:** *Dr. Pete Marsden:* My office hours will be in 323 Latimer. The times are still to be determined.
- TA's Office Hours:* There will be a Google Calendar found on bSpace with the TAs available times. They will be holding office hours in 106 Latimer. Be sure to only go to the 1AL TAs for assistance with lab material. Please use [this link](#).

Lectures

Lab lectures will be one hour each. The Friday and Monday lectures will be repeats of the previous Wednesday Lecture. We will cover concepts that will be explored during the following week's labs. There will usually be a handout with practice problems available on bSpace after each lab lecture to assist in the preparation of the prelabs for the following week.

Laboratory

Laboratories are 3 hours long. You should plan on being in lab for this period of time. There are 11 graded experiments (10 points each) and a poster presentation (12 points). You will be allowed to drop the lowest grade of your 11 experiments but not allowed to drop your score for the poster. This will add up to a total of 112 points. **See the section in this handout on lab report grades to determine what is necessary for the successful completion of a lab report.** It is your responsibility to read this information. As you will see, there are important consequences associated with not attending lab and/or not turning in completed laboratory reports.

A lab schedule is provided in your course reader. It is subject to change and any updates will be announced on the course website.

Course Website

The course website is <http://bspace.berkeley.edu>. If you are enrolled in the course, you will have access to this site. Announcements, experimental details and other items will be posted on this website. It is recommended that you check this site daily to see if there are any relevant announcements that you might have missed in class.

Email

Pete Marsden: petermarsden@berkeley.edu. All emails concerning Chemistry 1AL should have "Chem 1AL" in the subject line.

Required Texts

- Hayden-McNeil Student Lab Notebook for general chemistry. This can be purchased at the CAL Student Store.
- Hayden-McNeil Laboratory Manual (ISBN 9780738058337)

Ethics

It is assumed that all work you do for this laboratory class is original. This includes the prelab, in-lab observations and data. You should not attempt to bring any data or notes that are not specifically allowed to lab exam.

All of this falls under a behavioral category I refer to as Ethical Common Sense. Unethical behavior in this class will result in an F in the course and you will be reported to the Office of Student Conduct.

Lab Exam

There will be one written lab exam worth 30 points. **The lab exam date will be December 6 from 7:30 to 9:30 pm in a room to be determined.** The exam will focus on material that has been covered in both lecture and lab. This exam MUST be taken AND a score of ≥ 10 points must be obtained in order to complete the class. That is, if you score less than 10 points on the exam, you will receive an incomplete in the class regardless of how many total points you have accumulated. The incomplete will need to be satisfied within two semesters by taking the lab exam offered in Chemistry 1AL in Spring of 2013. A score of ≥ 10 points will warrant completion of the course.

Note: If you already have three zero's in the course at the time of the lab exam, you do not need to take the lab exam as you have already failed the course.

Pre-Labs

Each experiment has a pre-lab associated with it. The pre-labs will be done through the Sapling website. You will be responsible for completing the online questions no later than ONE HOUR BEFORE YOUR LAB SECTION and then printing out the answers so you have them during your lab period.

Additional information to keep in your lab notebook is a numbered list of steps to be taken during the lab period. If there are multiple "Parts" to an experiment, label them accordingly in your notebook. It is **imperative** that observations be recorded during the experiment. The benefit of the numbered list of steps is that you can then have a numbered list of observations. This will make it easier for any scientist to reproduce your work and compare their observations with yours.

Lab Attendance and Lab Scores

In order to receive points for any given lab, the following conditions must be met:

- You must attend lab.
- Prior to attending any given laboratory period you must have attended the lecture preceding that experiment or lab period.
- You must prepare a prelab following the instructions posted for each experiment.
- You must arrive to lab on time, which means no later than Berkeley time (10 minutes after the hour). In general, the first 10-15 minutes of every laboratory period are dedicated to a safety discussion, which is an important part of the experiment. Therefore, if you show up late you will not be allowed to participate in lab for that day.
- You must wear protective clothing and eyewear during the laboratory period. Your GSI can ask you to leave the lab for the day if you are not wearing such clothing or eyewear.
- You must record detailed observations about the experiment. Do not just make a checklist of what you are supposed to do and then check off the procedures as you carry them out without making observations as to what actually happened. All observations must be written in your lab notebook during, not after, the laboratory period.
- Before leaving lab, you must meet with your TA who will ask you to confirm that certain data is present in your notebook. At this point, you are to provide them with the perforated pages of your notebook that were used in lab that day.

If you do not complete all of the above conditions for any given lab, you will receive a 0 for that experiment. The consequences of multiple 0s are as follows:

- If you receive two zeros during the semester, you not only will lose a total of 10 points, but your course grade will also be dropped by one third of a grade. For example, if you earn enough points to get a B+ in the class, you will receive a B.
- If you receive three zeros you will receive a failing grade in the course.

Grades

The point total for this course is 132. These are broken down as follows:

- 100 points for lab assignments (including one dropped score)
- 12 points for the Polymers Poster
- 30 points for the Lab Exam

Grades at the end of the semester will be assigned as follows:

Grade	Includes	Percentage
A	A and A-	90-100
B	B+, B, and B-	80-89
C	C+, C, and C-	70-79
D	D	60-69
F	F	0-60