

Laboratory Syllabus

Chemistry 1A General Chemistry Laboratory CRN: 32199 Winter 2016

Instructor: Yue Liu
Office Hours: Monday/Wednesday 2:30-5:20 p.m. @SC1224 E-mail: liuyue@fhda.edu

Required Text: <https://www.deanza.edu/chemistry/pdf/1A/Experiments/>

Attendance: Attendance at all laboratories is mandatory

Preparation: It is imperative that you read the laboratory procedure and prepare your notebook prior to arriving at class.

Equipment: You will be assigned a laboratory locker. You will be responsible for broken equipment. Failure to properly check out of the lab may result in registration block for the future.

Safety: You are expected to act in a safe and responsible manner at all times in the laboratory. Eating or drinking in the lab is not allowed. Open toed shoes (i.e. sandals) are not allowed. If you have long hair, it must be tied back. All students must wear safety glasses if ANY student is performing an experiment. These safety glasses must actually cover your eyes and may not be worn on the top of your head!

Waste Disposal: All waste chemicals will be collected for disposal.

Cleanup: Spills happen. I understand that. However, what I do not understand and will not tolerate is your failure to clean up after yourself. You are expected to return all equipment to the location that you found it. On occasion, you may even be asked to replace equipment left out by others.

Lab Reports: Formal laboratory reports will be collected for most of the experiments.

Lab Books: A bound laboratory notebook is required (sold in the bookstore). All laboratory work must be entered into the lab book in ink. The pre-lab write-up in the lab book will be checked during the lab period.

Quizzes: Five lab quizzes will be given.

Grading: The laboratory portion of this course accounts for approximately 35% of the total grade. This 35% will be apportioned approximately as follows:

27 pts * 5 = 135 pts	Quizzes
10 pts * 11 = 110 pts	Laboratory reports
5 pts * 10 = 50 pts	Performance points: accuracy/cleanup.
5 pts * 11 = 55 pts	Laboratory notebook

Schedule: Next page

Dates	Experiments	Due	Quiz
1/04 Mon.	Check-in		
1/06 Wed.	Lab 1_Measurement		
1/11 Mon.	Lab 2_Nomenclature worksheet	Report 1	
1/13 Wed.	Lab 3_Hydrate (1)	Nomenclature worksheet	
1/18 Mon.	Holiday		
1/20 Wed.	Lab 3_Hydrate (2)		
1/25 Mon.	Lab 4_Precipitation (1)	Report 3	
1/27 Wed.	Lab 4_Precipitation (2)		Quiz 1 (Lab 1 and 3)
2/01 Mon.	Lab 5_Types of reactions (1)	Report 4	
2/03 Wed.	Lab 5_Types of reactions (2)		
2/08 Mon.	Lab 6_Conductivity (1)	Report 5	
2/10 Wed.	Lab 6_Conductivity (2)		Quiz 2 (Lab 4 and 5)
2/15 Mon.	Holiday		
2/17 Wed.	Lab 7_Acid base titration (1)	Report 6	
2/22 Mon.	Lab 7_Acid base titration (2)		
2/24 Wed.	Lab 8_Calorimetry (1)	Report 7	
2/19 Mon.	Lab 8_Calorimetry (2)		Quiz 3 (Lab 6 and 7)
3/02 Wed.	Lab 9_Redox titration (1)	Report 8	
3/07 Mon.	Lab 9_Redox titration (2)		
3/09 Wed.	Lab 10_Line spectra	Report 9	Quiz 4 (Lab 8 and 9)
3/14 Mon.	Lab 11_Molecular modeling	Report 10	
3/16 Wed.	Check-out	Report 11	Quiz 5 (Lab 10 and 11)

