

GENERAL CHEMISTRY LABORATORY 1411

FALL, 2008

Day	Meeting Time	Section	Instructor	Room
M	2:00 pm - 4:50 pm	09Z	Mr. Boudreaux	CAV 227, 219
		10Z	Dr. Osborne	CAV 206, 200
		11Z	Dr. Sabino	CAV 212, 211
T	2:00 pm - 4:50 pm	12Z	Mr. Boudreaux	CAV 212, 211
		13Z	Dr. Osborne	CAV 216, 215
		14Z	Dr. Sabino	CAV 227, 219
W	2:00 pm - 4:50 pm	15Z	Mr. Boudreaux	CAV 212, 211
		16Z	Dr. Flynn	CAV 216, 215
		17Z	Dr. Velasquez	CAV 227, 219
		18Z	Dr. Sabino	CAV 206, 200
Th	2:00 pm - 4:50 pm	19Z	Dr. Sabino	CAV 212, 211
		20Z	Dr. Dawkins	CAV 216, 215
		21Z	Dr. Osborne	CAV 227, 219
		22Z	Dr. Velasquez	CAV 206, 200

Pre-lab lectures and quizzes will usually be given in room CAV200.

Required Equipment:

David Carter, Kevin A. Boudreaux, Nick Flynn, and Joe Velasquez, III, *Laboratory Manual for Chemistry 1411* (2008)

Lab Goggles

The first essential in chemistry is that thou shouldst perform practical work and conduct experiments, for he who performs not practical work nor makes experiments will never attain the least degree of mastery.

Jabir ibn Hayyan (Geber) (721-815)

Required Lab Dress: Beginning on the first day of lab, everyone **MUST** have **approved goggles, long-sleeved shirts which cover the midriff, long pants, and shoes with closed toes and heels** (no sandals, slides, etc.). (Basically, you should have as little exposed skin as possible.) Anyone not wearing the appropriate attire will not be allowed into lab.

Grading: The lab reports for the 12 experiments will count for 70% of the lab grade; pre-lab quizzes will count for 10%, and the online assignments will count for 20%. The lab grade will be reported to your instructor as a 100 point grade. No labs will be dropped from the total.

Online Assignments: Each lab will have associated with it a series of online pre-lab assignments that must be completed before you take the lab, and post-lab assignments that must

be completed after the lab. Details about the assignments will be provided by your lab instructor.

Lab Manual, Pre-Lab Quizzes: The lab manual provides a description of the background for each experiment, a procedure for the experiment, and a lab report form which must be handed in when the lab is completed. There will be a pre-lab quiz administered before some of the labs. It is essential that you read the appropriate section in the manual before coming to class.

Make-Up Lab Policy: If you miss a lab, you must obtain a permission form from your instructor to attend one of the make-up lab sessions. Make-up lab periods are scheduled on **Friday, October 24** for labs missed before October 24, and **Monday, December 1** for experiments missed after October 24. These are the *only* times when you can make up a lab. Only *one* lab may be made up during each period. (No make-up will be allowed on the Chemical Reactions I lab.)

Cleaning Up: Make sure that your lab area is clean and that all glassware and hardware has been cleaned and returned to the appropriate drawers before leaving the lab.

CHEM 1411 Laboratory Schedule

Week of	Experiment	Lab Manual Pages
Aug 25	Introduction to lab and online homework	
Sep 1	Online assignments on measurements, units, and significant figures	online
Sep 8	Measurement I: Mass, Volume, and Density Measurements	handout
Sep 15	Measurement II: Introduction to the Mole Concept	handout
Sep 22	Measurement III: Molarity and Dilutions	handout
Sep 29	Stoichiometry I-III	11-28
Oct 6	Specific Heat Capacity	29-36
Oct 13	Chemical Reactions I: Some Chemical Reactions Involving Oxygen	37-58
Oct 20	Chemical Reactions II: Reactions of Ions in Solution	59-68
Oct 27	The Gas Laws	69-80
Nov 3	Heats of Reaction: Hess's Law	87-96
Nov 10	Hydrogen Peroxide Titration	97-106
Nov 17	Limiting Reagents	107-120
Nov 24	Thanksgiving Holiday	
Dec 1	Lewis Structures / VSEPR	133-158