

GENERAL CHEMISTRY LABORATORY 1411

FALL, 2009

Day	Meeting Time	Section	Instructor	Class Room	Lab Room
M	2:00 pm - 4:50 pm	09Z	Dr. Velasquez	CAV 216	CAV 215
		11Z	Mr. Boudreaux	CAV 227	CAV 219
T	2:00 pm - 4:50 pm	12Z	Dr. Dawkins	CAV 216	CAV 215
		13Z	Mr. Boudreaux	CAV 227	CAV 219
W	2:00 pm - 4:50 pm	15Z	Dr. Osborne	CAV 212	CAV 211
		18Z	Dr. Dawkins	CAV 227	CAV 219
Th	2:00 pm - 4:50 pm	20Z	Dr. Velasquez	CAV 216	CAV 215
		21Z	Mr. Boudreaux	CAV 227	CAV 219

Pre-lab lectures will be given in the class rooms listed above.

Required Equipment:

David Carter, Kevin A. Boudreaux, Nick Flynn, and Joe Velasquez, III, *Laboratory Manual for Chemistry 1411* (2009)

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 13 experiments will be averaged together, and reported to your lecture instructor as a 100 point grade. *No labs will be dropped from the total.*

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. 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 23** for labs missed before October 23, and **Monday, November 30** for experiments missed after October 23. 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

Days	Experiment	Lab Manual Pages
Aug 24 – Aug 28	Significant Figures, Scientific Notation, Units of Measure, Dimensional Analysis, Accuracy and Precision (lecture and worksheet)	11-27
Aug 31 – Sep 4	Measuring Mass, Length, Volume and Density	33-52
Sep 7	<i>Labor Day. Starting from this week, the labs will follow a Tuesday-through-Monday schedule.</i>	
Sep 8 – Sep 14	Determining the Concentration of Sugar in a Commercial Beverage	53-62
Sep 15 – Sep 21	Stoichiometry I and II	63-76
Sep 22 – Sep 28	Stoichiometry III and IV	77-92
Sep 29 – Oct 5	Specific Heat Capacity	93-102
Oct 6 – Oct 12	Chemical Reactions I: Some Chemical Reactions Involving Oxygen	103-120
Oct 13 – Oct 19	Chemical Reactions II: Reactions of Ions in Solution	121-138
Oct 20 – Oct 26	The Gas Laws / Finding the Molar Mass of Oxygen	139-156
Oct 27 – Nov 2	Heats of Reaction: Hess's Law	157-168
Nov 3 – Nov 9	Titration of Hydrogen Peroxide	169-178
Nov 10 – Nov 16	Limiting Reactants	179-192
Nov 17 – Nov 23	Paper Chromatography / Empirical Formula by Microanalysis	193-204
Nov 26 – Nov 27	<i>Thanksgiving Holiday</i>	
Nov 30 – Dec 4	<i>Dead week</i>	