

CHEMISTRY 121 LABORATORY (Spring 2009)

Before coming to laboratory you should read the Exercise scheduled for the week, including the “Assigned Reading”, and complete the Homework section of the Exercise. Each week there will be a quiz. The quiz will cover both the laboratory exercise and homework from the previous week as well as the homework for the current week. During the laboratory week beginning **February 24th** there will be a comprehensive laboratory examination covering the first six weeks of laboratory work. The exam will include a practical as well as a written portion.

For a number of the exercises in the General Chemistry laboratory, you will be making use of the Texas Instruments Calculator Based Laboratory (CBL) interface. To use this interface you will need a Texas Instruments graphing calculator (TI-83+/TI-83+SE or TI-84+/TI-84+SE recommended) and the link cable that comes with the calculator. **Bring your calculator with you to the first laboratory period and to all subsequent labs.**

The laboratory work during the semester is divided into two portions. During Part I (the first six weeks) the emphasis is on learning some basic techniques. During Part II (the last six weeks) these same techniques will be applied in more complex exercises.

There is a departmental attendance policy for general chemistry laboratory. The accumulation of **four or more absences** from laboratory in one semester will result in an **automatic grade of “F”** being given for the semester of general chemistry (not just for the laboratory). **If you must miss a laboratory for any reason, it is your obligation to contact your instructor** (however, be aware that **missed laboratory work cannot, in general, be made up**).

NOTE: If you took CHEM 121 **last semester** and are repeating the course to improve an unsatisfactory grade, you **may** have the option of repeating just the lecture portion of the course. **For details, inquire at the Chemistry Department Office (Room 319 EPS).**

DATES	EXERCISE
PART I	
Jan. 13 -15 Jan. 20 - 22	The TI Calculator (load CHEMBIO onto calculators), Significant Figures Safety, the CBL System (check into lab), complete the Graphing exercise as homework and bring the completed exercise to lab
Jan. 27 - 29	Mass and Volume Measurement
Feb. 3 – 5	Density Determination
Feb. 10 - 12	Empirical Formula of a Compound
Feb. 17 – 19	Quantitative Solution Preparation
Feb. 24 - 26	COMPREHENSIVE EXAM OVER FIRST SIX EXERCISES
PART II	
March 3 - 5 March 10 – 12	Quantitative Analysis CHEM 121 Labs will not meet the week of SPRING BREAK
March 17 - 19	Molar Volume
March 24 – 26	Determination of Absolute Zero
March 31 – Ap. 2	Specific Heat
April 7 - 9	Enthalpy Change for a Chemical Reaction
April 14 – 16	Synthesis of Alum
April 21 - 23	Final quiz, Check out of lab