General Chemistry Laboratory II

Chemistry 126

Section: D100

Term: 2010 Spring

Instructor: Dr. J. Canal

Discussion Topics: General Course Description:

Experiments in chemical equilibrium, acids and bases, qualitative analysis, electrochemistry and chemical kinetics. A computer interface, probes and computer software will be used for data collection and analysis in several experiments.
This course is designed to complement Chem 122 and students who expect to take further courses in physical or inorganic chemistry should take Chem 122 concurrently with 126.

0 lecture hours/week; 0 tutorial hour/week; 4 lab hours.

Experiment - Topics

1 - Endothermic and Exothermic Reactions. Excel Tutorial

2 - Laboratory techniques

3 - Kinetics

4 - Kinetics

5 - Spectrophotometric Determination of an Equilibrium Constant

6 - The Solubility Product of Potassium Hydrogen Tartrate

7 - Acid-Base Reactions

8 - Mid-term exam

9 - Buffers

10 - Thermodynamics

11 - Electrochemistry

12 - Mid-term exam/Electrochemistry

Grading: Lab Reports and LON-CAPA 55%; Quizzes and Examinations 45%

Required Texts: Chem 126 Laboratory Manual will be distributed at the first laboratory lecture in Week 1

Recommended Texts: None

Materials/Supplies: Supplies: Safety glasses, One spiral-bound notebook, Calculator.

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Prerequisite/Corequisite: Prerequisite: CHEM 121(or 102 and 115). Corequisite: CHEM 122. Students may not count both CHEM 126 and CHEM 118 for credit.

Notes: All Students must attend laboratory the First Week of classes.

A grade of Incomplete will be awarded to students who do not complete all experiments. It is the responsibility of the student to contact the Instructor within a week of a missed experiment to explain the reason why the experiment was missed and to schedule when the missed experiment will be completed. Failure to do so will result in loss of marks.