

General Chemistry Laboratory II

Chemistry 126

Section: D100

Term: 2001 Spring

Instructor: Dr. D. Sharma.

Office: SSB-8105.

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.

Topics:

Experiment 1. Kinetics

Experiment 2. Kinetics

Experiment 3. Kinetics

Experiment 4. Equilibrium and LeChatelier's Principle

Experiment 5. Spectrophotometric Determination of an Equilibrium Constant

Experiment 6. Acid-Base Reactions

Experiment 7. Acid-Base Reactions

Experiment 8. Buffers

Experiment 9. The Solubility Product of Potassium Hydrogen Tartrate

Experiment 10. Qualitative Analysis of Anions.

Experiment 11. Thermodynamics

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Experiment 12. Electrochemistry

Grading: Lab Reports 65%; Quizzes and Final Examination 35%.

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 or prescription glasses, One spiral-bound notebook, Calculator, Computer printer card.

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: None

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