

Introductory Chemistry Laboratory

Chemistry 106

Section: D100

Term: 1998 Spring

Instructor: Dr. J. Wolf. Office: C-9034, Lab: C-8023.

Discussion Topics: Under construction

General Course Description:

Experiments in general chemistry which illustrates the principles described in CHEM 101.

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

Topic:

Week 1. Significant Figures and Density Measurements.

Week 2. Identification of an Unknown Liquid, Chemical Names and Formulae.

Week 3. Separation of a Solid Mixture; Evidence of a Chemical Reaction.

Week 4. Precipitation and Net Ionic Equations.

Week 5. Limiting Reagent and Stoichiometry.

Week 6. Empirical Formula of Silver Chloride.

Week 7. Practical LAB EXAM I.

Week 8. Conversion of a Carbonate to a Chloride, Formula of a Hydrate.

Week 9. Ideal Gas Laws.

Week 10. Oxidation - Reduction.

Week 11. Acids, Bases, Salts; Acid Analysis.

Week 12. Practical LAB EXAM II.

Grading: 30% Laboratory Reports; 35% Quizzes; 35% Lab Exams(2).

Required Texts: Chem 106 Laboratory Manual will be distributed at the first laboratory lecture Week 1.

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Recommended Texts: None

Materials/Supplies: Supplies required:

Safety glasses or prescription glasses(contact lenses not permitted). One spiral-bound notebook. Calculator.

Prerequisite/Corequisite: Prerequisites: None. Corequisite: CHEM 101.

Students with credit for CHEM 115 or a succeeding Chemistry laboratory course may not take CHEM 106 for further credit.

Notes: This course is designed for students who have no knowledge of chemistry or who are starting from B.C. High School Chemistry 11. Science students who have successfully completed B.C. High School Chemistry 12 (or equivalent) normally take Chem 115 as their first laboratory course.

This outline is derived from a course outline repository database that was maintained by SFU Student Services and the University's IT Services Department. The database was retired in 2014 and the data migrated to SFU Archives in 2015.