

General Chemistry II

Chemistry 103

Section: D100

Term: 1998 Spring

Instructor: Dr. S. Holdcroft. Office: SSB-8102

Discussion Topics: Under construction

General Course Description: (from calendar)

Chemical equilibria; electrochemistry; chemical thermodynamics; kinetics; transition metal chemistry.

3 lecture hours/week; open tutorials

Topics:

2 Lectures. Chemical equilibrium. Chapter 6.

1 Lecture. Aqueous solutions and acid-base equilibria, pH scale. Chapters 7 & 8.

1 Lecture. Weak acids and bases, buffer solutions, polyprotic acids. Chapters 7 & 8.

1 Lecture. Solubility equilibria. Chapters 7 & 8.

1 Lecture. Thermochemistry, introduction to thermodynamics.
Chapter 9.

2 Lectures. Entropy, free energy and equilibrium.
Chapter 10.

2 Lectures. Introduction to electrochemistry. Chapter 11.

2 Lectures. Kinetics: rates and mechanisms of reactions.
Chapter 15.

1 Lecture. Chemistry of selected elements. Chapter 20.

Grading: 40% Mid-Term Exams(2); 10% Assignments; 50% Final Exam

Required Texts: Zumdahl, "Chemical Principles", 2nd Ed. 1995, Nelson Canada.

Recommended Texts: None

Materials/Supplies: None

Prerequisite/Corequisite: Prerequisite:

General Chemistry II

CHEM 102. CHEM 118, MATH 152 (or 155), and PHYS 120 (or 101) or 121 (or 102) should be taken concurrently. Students may not count both CHEM 103 and 105 for credit.

Notes: None

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