

General Chemistry I

Chemistry 102

Section: D100

Term: 1998 Spring

Instructor: Dr. R. H. Hill. Office SSB-8106. e-mail: wwwc102@sfu.ca

Discussion Topics: Under construction

General Course Description:

Atomic structure and chemical bonding; gases, liquids, solids, and solutions; thermochemistry; chemical reactions; periodic properties; stoichiometry.

3 lecture hours/week; open tutorials.

Topics:

Week 1 Chemists and Chemistry. Chapter 1.

Week 1 Atoms, Molecules and Ions. Chapter 2.

Week 2 Stoichiometry. Chapter 3.

Week 3 Chemical Reactions/Solution Stoichiometry. Chapter 4.

Week 4 Gases. Chapter 5.

Week 5 Thermochemistry. Chapter 9.

Exam

Week 7/8 Atomic Theory. Chapter 12.

Week 9 Bonding: General Concepts. Chapter 13.

Week 10 Covalent Bonding: Orbitals. Chapter 14.

Exam

Week 11 Liquids and Solids. Chapter 16.

Week 12 Solutions. Chapter 17.

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Week 13 The Nucleus: A Chemist's View. Chapter 21(part)

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

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

Recommended Texts: None

Materials/Supplies: None

Prerequisite/Corequisite: Prerequisite:

B.C. High School Chemistry 12 or CHEM 101. CHEM 115 and

MATH 151 or 154 should be taken concurrently.

Notes: Assigned problems, specimen answers, examination results and other relevant information about CHEM 102 will either be posted in the glasscase near the Chemistry General Office, 8000-level, Science Complex OR on the Web. Familiarity with computers is encouraged.

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