

Introductory Chemistry

Chemistry 101

Section: D100

Term: 1998 Spring

Instructor: Dr. R. Korteling:

Office: C-8078

Discussion Topics: Under construction

General Course Description:(from calendar).

General fundamental concepts and nomenclature; stoichiometry and chemical calculations; nuclear and atomic structures, the periodic table, the chemical bond; the properties of gases, liquids, solids and solutions; chemical kinetics and chemical equilibrium.

3 lecture hours/week; open tutorials.

Topics:

3 Lectures. Measurement, classification of matter, basic laws of chemistry.
Chapters 2, 3, 4.

10 Lectures. Atoms, molecules, formulas, equations, stoichiometry.

Chapters 5, 10.

2 Lectures. The Periodic Table. Chapter 6.

3 Lectures. Gases. Chapter 12.

7 Lectures. Bonding, liquids and solids, energy, solutions, dissociation.
Chapters 7, 11, 13.

10 Lectures. Reaction rates, equilibrium, acids and bases, oxidation/reduction. Chapters 14 - 16.

Grading: 40% 2 Mid-Term Exams; 50% Final Exam; 10% Homework assignments

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Required Texts: Stoker, "Introduction to Chemical Principles", 5th Ed. 1996, Prentice Hall.

Recommended Texts: None

Materials/Supplies: None

Prerequisite/Corequisite: Prerequisite: B.C. High School Mathematics 12 (or equivalent) (or MATH 100, corequisite) or permission of the department. No previous training in chemistry is required for this course. The laboratory course CHEM 106 should be taken concurrently b

Notes: Students who have successfully completed B.C. High School Chem 12 (or equivalent) normally start with CHEM 102.

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.