Introductory Chemistry

Chemistry 110

Section: D100

Term: 2006 Spring

Instructor: Lecturer: G. J. Keizer. Office: C8021 Phone: 604-291-5416.

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Discussion Topics: 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. This course has the same lecture component as Chem 111 but no laboratory work.

3 hours/week lecture; 1 hour/week tutorial; 0 hours/week laboratory.

Lectures

Topics

- 1 Units, Measurements, Significant Figures
- 3 Basic concepts; Matter, Atoms, Nucleus
- 3 Electronic structure, the Periodic Table
- 1 Chemical Nomenclature

Midterm Exam I

- 3 The Mole, Chemical Formula Reactions and Equations
- 3 Stoichiometry
- 1 States of Matter and Energy
- 3 Gas Laws

Introductory Chemistry

2.	Solutions.	concentration	and	molarity
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Midterm Exam II

- 3 Ionic and Covalent Bonding
- 3 Reaction Rates and Chemical Equilibrium
- 3 Acids and Bases
- 3 Oxidation and Reduction

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

Required Texts: Stoker, "Introduction to Chemical Principles", 8th Ed. 2005, Prentice Hall.

Recommended Texts: None

Materials/Supplies: None

Prerequisite/Corequisite: B.C. High School Math 12(or equiv.)(or Math 100, corequisite) or permission of the department. No previous training in chemistry is required for this course. Students with credit for high school Chem 12(or equiv.) or any university chemistry course may n

Notes: Students who have successfully completed B.C. High School Chem 12 (or equivalent) normally start with CHEM 121.

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.