

Atoms, Molecules, Spectroscopy

Chemistry 260

Section: D100

Term: 2003 Summer

Instructor: Mr. I. D. McKenzie.

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Discussion Topics: General Course Description:

Elements of physical chemistry from the molecular point of view. Introduction to quantum chemistry, atomic and molecular structure, and spectroscopy.

3 lecture hours/week; 1 tutorial hour/week; 2 lab hours/week.

Lecture Topics:

Introduction to Principles of Quantum Mechanics

Introduction to Spectroscopy

Applications of Quantum Mechanics: Rotation of Molecules

Magnetic Resonance Spectroscopy

Atomic Structure and Spectroscopy

Applications of Quantum Mechanics: Vibrations of Molecules

Molecular Structure

Molecular Electronic Spectroscopy

Grading: 25% Assignments & Laboratory; 25% Midterm; 50% Final Exam.

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Required Texts: P. Atkins, "Physical Chemistry", 6th Edition. 1998. Freeman & Co.

Recommended Texts: None

Materials/Supplies: None

Prerequisite/Corequisite: Prerequisite: CHEM 122 (or 103). MATH 152, PHYS 121.

Recommended: MATH 232.

Notes: None

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