

CHM B31H3F Introduction to Inorganic Chemistry

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Recommended text: Inorganic Chemistry, Housecroft and Sharpe, Prentice Hall, Second Edition, 2005.

References: Basic Inorganic Chemistry, Cotton and Wilkinson
Inorganic Chemistry, Shriver and Atkins,
Third Edition, Freeman and Company, 2003
Advanced Inorganic Chemistry, Cotton and Wilkinson
Other references will be given in class

Marking Scheme: Term Test during week of October 16 (TBA)- 25 %
Term Test during week of November 13 (TBA) - 25 %
Final Examination (during exam period) -50 %

Office hours: Monday 12:00noon - 1:00 PM
Friday 10:00AM - 11.00 AM

Course outline: see next page

COURSE OUTLINE :

PART 1 FOUNDATIONS

Chapter 1	Some basic concepts
Chapter 2	Nuclear properties
Chapter 4	Bonding in polyatomic molecules
Chapters 5 and 27	Structures and energetics of metallic and ionic solids
Chapter 6	Acids, bases and ions in aqueous solutions

PART 2 SYSTEMATIC CHEMISTRY OF THE ELEMENTS

Chapters 19 and 20	d-block chemistry
Chapter 9	Hydrogen
Chapters 14 and 15	The Groups 15 and 16 elements
Chapters 16 and 17	The Groups 17 and 18 elements

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Course Description:

Fundamentals of coordination, solid state and descriptive Inorganic Chemistry, Structures metal coordination compounds; solid state structures and energetics; selected chemistry Examples will be taken from environmentally and biologically important inorganic compounds

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Last modified on September, 2006