

CHEM 3341
Inorganic Chemistry

Instructor: Dr. Sibert

Fall 2005

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Office Hours: M,W 12:00 - 1:00 or “when my door is open”

Lecture: M,W,F 10:00-10:50 (CB 1.122)

Texts: *Inorganic Chemistry, Second Edition*, Housecroft and Sharpe **required**

Background Text: Your Undergraduate General Chemistry Text

Grading: Three Exams^a 60% Final Exam 20% Homework/Quizzes 20%

Topics:

Unit/Exam I:

Some basic concepts: atomic Structure, bonding

Chapter 1

An introduction to molecular symmetry

Chapter 3

Bonding in polyatomic molecules

Chapter 4

Unit/Exam II:

Structures and energetics of metallic and ionic solids Chapter 5

Coordination complexes: an introduction

Chapter 6 (6.11 – 6.13)

d-block chemistry: general considerations

Chapter 19

d-block chemistry: coordination complexes

Chapter 20

Unit/Exam III:

d-block metal complexes: reaction mechanisms

Chapter 25

Organometallic compounds of d-block elements

Chapter 23

Homogeneous and heterogeneous catalysis

Chapter 26

The trace metals of life

Chapter 28

Final Exam:

^aDates to be announced at least a week in advance.

Attendance:

You are expected to attend classes regularly if you wish to be successful in this course. You are responsible for all assignments made during class whether you are in attendance or not. If you find it necessary to be absent from class, you should contact me or a classmate to learn of any assignments.

You must have a university excuse for missing a quiz or exam or your grade will be zero. **There are no make-up exams or quizzes.** If your absence is excused, please notify me as soon as you return to school so that provisions can be made for a grade for the missed work.