

CHEM Advanced Inorganic Chemistry, Spring 2000

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CHEMISTRY 408

ADVANCED INORGANIC

Spring Semester, 2000
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TEXT: *Inorganic Chemistry* by G. L. Miessler and D. A. Tarr

DESCRIPTION: In this course, you will study is to give you an overview of inorganic chemistry and sufficient knowledge of the subject to allow you to read inorganic literature with a reasonable level of understanding.

GENERAL INFORMATION: There will be three examinations during the semester and they will be worth a total of 300 points. In addition you will be required to do the following:

1. Write 7 journal article reports on inorganic topics from at least four different journals and present three of these to the class. These will be expected on Friday mornings beginning January 28. These reports will be worth 100 points.
2. Complete three projects in inorganic synthesis and characterization and one computer project on structural analysis. These projects are worth 50 points each for a total of 200 points.

A problem set will be assigned for each of the chapters covered during the semester.

The course grade will be arrived at according to the following scale:

- A --- 90 - 100% of the points available
- B --- 80 - 89%

C --- 70 - 79%
D --- 50 - 69%

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Class Schedule, Spring Semester, 2000

Weeks 1-4	Chapters 1-2 (Introduction and Atomic Structure)
January 17	Holiday
January 21	Project I Starts
February 11	EXAM I
February 18	Project I Report Due Project II Starts
Weeks 5-7	Chapters 3-5 (Covalent Bonding and Symmetry)
Week 8	Chapter 6 (Acids and Bases)
March 6-10	Holiday
March 17	EXAM II
Weeks 9-13	Chapters 8-11 (Coordination Chemistry)
March 24	Project II Report Due Project III and Structure Project Start
April 21	Holiday
Week 14	Chapter 12 (Organometallic Chemistry)

April 28

**Project Report III Due
Structure Report Due
Check-out**

May 1

EXAM III (Finals Week) , 1:00 pm