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CHEM 408-01, Advanced Inorganic chemistry, Spring 2003

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CHEMISTRY 408

ADVANCED INORGANIC

Spring Semester, 2003

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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 articles in *Inorganic Chemistry* and *Dalton Transactions* (online as well as hard copy) and present three of these to the class. These will be expected on Friday mornings beginning January 31. 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% | |

Class Schedule

Spring, 2003

Weeks 1-4	Chapters 2, 7 (Atomic Structure, Solid State)
January 20	Holiday
January 24	Project I Starts
February 14	EXAM I
Weeks 5-7	Chapters 3-5 (Covalent Bonding and Symmetry)
February 28	Project I Report Due Project II Starts
Week 8	Chapter 6 (Acids and Bases)
March 10-14	Holiday
March 21	EXAM II
Weeks 9-13	Chapters 9-12(Coordination Chemistry)
March 20	Holiday
March 28	Project II Report Due Project III Starts
Week 14	Chapter 13 (Organometallic Chemistry)
May 2	Project III Report Due Project IV Report Due Check-out
May 5	EXAM III (Finals Week), 5:30 pm