

# CHEMISTRY 408

## ADVANCED INORGANIC

Spring Semester, 2003

Dr. David Y. Jeter

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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  | <b>Project I Starts</b>   |
| February 14 | <b>EXAM I</b>   |
| Weeks 5-7   | Chapters 3-5 (Covalent Bonding and Symmetry)                                      |
| February 28 | <b>Project I Report Due</b><br><b>Project II Starts</b>                           |
| Week 8      | Chapter 6 (Acids and Bases)   |
| March 10-14 | Holiday   |
| March 21    | <b>EXAM II</b>  |
| Weeks 9-13  | Chapters 9-12(Coordination Chemistry)   |
| March 20    | Holiday   |
| March 28    | <b>Project II Report Due</b><br><b>Project III Starts</b>                         |
| Week 14     | Chapter 13 (Organometallic Chemistry)   |
| May 2       | <b>Project III Report Due</b><br><b>Project IV Report Due</b><br><b>Check-out</b> |
| May 5       | <b>EXAM III (Finals Week), 5:30 pm</b>  |