

Chemistry 422
Spring 2006

Instructor: Dr. Craig M. Jensen, 321C Bilger Hall

Office hours M,W, Th 2:00-3.00 PM or by appointment.

Text: *Inorganic Chemistry*, Third Edition

Gary L. Meisler and Donald A. Tarr

Problem Sets: 10 sets (10 points each) (100 points)

Examinations: Midterm Exam I, February 24 (100 points)

Midterm Exam II, March 24 (100 points)

Final Exam, 9:45 AM, May 12 (200 points)

<u>Week of</u>	<u>Topic(s)</u>	<u>Chapter(s)</u>
January 9	Coordination Compounds	9
16	Holiday / Coordination Compounds	9
23	Ligand Field Theory	10
30	Ligand Substitution Reactions	12
February 6	Bioinorganic Chemistry	16
13	Acid-Base Chemistry	6
20	Holiday/Review/Midterm I	
27	Molecular Orbital Theory	5,15
March 6	Three Center Bonding, Molecular Orbitals in extended systems	5
13	Symmetry / Group Theoretical Treatment of Molecular Orbitals	4,5
20	Application of Molecular Orbital Theory to Coordination Complexes/Midterm II	10
27	Spring Break	
April 3	Bonding in Organometallic Compounds	13
10	Organometallic Reactions/Holiday	14
17	The Solid State	7
24	Solid State Chemistry	7
May 1	Semiconductors	7