

CHEM 462
Fall, 2008
T Th 2:00–3:15 pm
Faraday West 400

Lecturer: T. M. Gilbert
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Tentative Lecture Schedule

<u>Week</u>	<u>Chapter</u>	<u>Topic</u>
1 8/26 8/28	1 2	Preliminaries Electronic Structure of Atoms
2 9/2 9/4	2 3	Electronic Structure of Atoms Structure and Bonding in Molecules
3 9/9 9/11	3 3	Structure and Bonding in Molecules Structure and Bonding in Molecules
4 9/16 9/18		No Lecture; WATOC Conference No Lecture; WATOC Conference
5 9/23 9/25	7 7	Solvents, Solutions, Acids, and Bases Solvents, Solutions, Acids, and Bases
6 9/30 10/2	4 4	Ionic Solids Ionic Solids
7 10/7 10/9		The Logic of Chemical Reactions Main Group Organometallic Chemistry
8 10/14 10/16		Main Group Organometallic Chemistry Midterm Exam
9 10/21 10/23		Steric Effects and Oligomerization Steric Effects and Oligomerization
10 10/28 10/30		Multiple Bonds Multiple Bonds
11 11/4 11/6		“Frustrated Lewis Pairs” Bonding when the Coordination Number is Greater than 4
12 11/11 11/13		Oxidation State and Stability REDOX Reactions
13 11/18 11/20		Rings and Polyhedra Rings and Polyhedra
14 11/25 11/27		Special Topic No Lecture; Thanksgiving Holiday
15 12/2 12/4	31 31	Main Group Bioinorganic Chemistry Main Group Bioinorganic Chemistry
16 Tuesday, 12/9		Final Exam; 2:00 - 3:50 pm

INFORMATION

Office Hours: I will hold office hours on Tuesdays and Thursdays, from 11:00–11:55 am. You are welcome to drop in without an appointment during these times. If you can't make it then, you should make an appointment for another time. However, since I have other responsibilities, appointments will be limited. I will answer short, concise questions by e-mail, but the turnaround time may not be instantaneous.

There are no tutors or TAs for this class.

Text: The text for this course is: F. A. Cotton, G. Wilkinson, and P. L. Gaus, "Basic Inorganic Chemistry, 3rd Edition", Wiley, New York, 1995. The Solutions Manual, by the same authors, is recommended, but given our limited use of the text, you may find it unnecessary. Many texts focusing on inorganic chemistry are available in the Chemistry/Physics library (Faraday 212), and you may want to peruse them for different perspectives on difficult concepts. See the library staff for help.

Homework: Because the Solutions Manual provides solutions to the problems in the text, homework problems will not be assigned, collected, or graded. Exam questions will be based on such problems, and therefore they are worth doing.

Exams and Grades: A Midterm and a Comprehensive Final Exam will be given on the days listed above. They will consist of several questions, and will occupy the available period (75 minutes for the Midterm, 110 minutes for the Final). Regrade requests must be made within one week of the exam day.

You **must** take the Midterm and Final Exams; no makeup exams or any sorts of alternatives exist for these.

The overall class grade will be determined as follows:

Midterm Exam @ 100 points:	100 points maximum
<u>Final Exam @ 150 points:</u>	<u>150 points maximum</u>
Total Possible Points:	250 points maximum

The grading scale will be: 80%+ (≥ 200 points) = A, 64–79.9% (160–199 points) = B, 40–63.9% (100–159 points) = C, <40% (≤ 99 points) = F. This scale will not be changed under any circumstances so you should gauge your class performance from the given scale. There is one adjustment: Any student scoring less than 45 out of 150 (30%) on the Final Exam will receive a grade of F for the course, regardless of that student's performance on the previous quizzes and exams.