

CHM 401
Intermediate Inorganic Chemistry
Fall 2009

Instructor: Dr. Bill Euler

Textbook: *Shriver and Atkins Inorganic Chemistry*, 4th edition, P. Atkins, T. Overton, J. Rourke, M. Weller, F. Armstrong, P. Salvador, M. Hagerman, T. Spiro, E. Stiefel

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Office Hours:
By Appointment
Whenever I am in my office
Monday, 9:00 – 10:00 a.m.
Tuesday, 8:00 – 9:00 a.m.
Friday, 1:00 – 2:00 p.m.

Topics to be covered this semester:

Atomic Structure (Chapter 1)
Molecular Structure and Bonding (Chapter 2)
Solids (Chapter 3)
Acids and Bases (Chapter 4)
Oxidation and Reduction (Chapter 5)
Physical Techniques in Inorganic Chemistry (Chapter 6)
Symmetry (point groups only) (Chapter 7)
d-Metal Complexes (Chapters 8, 19, 20, 21)

Grading:

Exam 1 (Oct. 7, 8:00 – 8:50 a.m.)	100
Exam 2 (Nov. 6, 8:00– 8:50 a.m.)	100
Exam 3 (Dec. 9, 8:00– 8:50 a.m.)	100
Final (Dec. 21, 8:00–11:00 a.m.)	150
Class Participation	300
Cruikshank Lecture paper, due Oct. 12	<u>100</u>
TOTAL	850

All exams are open textbook and open notes. Don't let this deter you from studying thoroughly - the exams will consist primarily of thought questions that require you to use the material covered in class and the text (i.e., you won't be able to look any answer up!). You will be required to use the textbook as a reference for tables of data and equations. If your score on the final exam is higher than the average of your three hour-exams, I will replace all of your exam scores with the final exam score, appropriately weighted (i.e., the final exam can be worth 150 or 450 points, whichever gives you a higher total). (Be warned: the final exam will be hard, so do not rely on it too heavily.)

The Class Participation grade is assigned each day, up to 10 points per day. You can earn a maximum of 300 points on the Class Participation portion of your grade, which will be easy to do if you make an effort. You must attend class, arrive on time, and ask or answer relevant questions in class. Learning is most effective when you are engaged in the subject matter.