Chemistry 520B
Inorganic Chemistry
Spring 2015

Instructor: Dr. Nicole Fry
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Class Hours and Location: Tues. & Thurs. 12:30 – 1:45 pm, GMCS-327
Office Hours and Location: By appointment on Tues. or Thurs., GMCS 213F

Class Textbook: "Concepts and Models in Inorganic Chemistry"

Prerequisite: Chem520A. We will be building on some of the concepts you learned in Chem 520A.

Lecture Activities: Bring scratch paper to every lecture. The lectures will be interactive. I will ask questions throughout the lectures that will help you learn the material and help me gauge your understanding. Scratch paper will be necessary for working out some of the questions.

Summary of Course Grade:

4 Writing Assignments -----------100 pts (25 pts each; one per Ch.)
2 Midterms-----------------------250 pts (125 pts each; tentatively scheduled for 2/24 & 3/26)
Final-----------------------------150 pts (5/14 at 10:30am-12:30pm)
Total-------------------------------500 pts

Course Learning Outcomes

1. Be able to compare various types of spectroscopy and use spectroscopic data to interpret the electronic structure of transition metal complexes. (Ch. 10: Spectra and Bonding)
2. Be able to predict and describe the reactivity of transition metal ions (Ch. 8: Oxidation-Reduction Reactions) and their corresponding coordination complexes (Ch. 11: Reaction Mechanisms)
3. Be able to analyze the role of metal ions in biological systems. (Ch. 18: Bioinorganic Chemistry)
4. Be able to articulate (in writing) what you have learned in class, how this knowledge relates to your pre-existing knowledge, and how it can be used outside the classroom.