Goals: Examine the coordination chemistry of metals with a focus on structure, bonding of ligands, and electronic spectra. Concepts in atomic structure, molecular symmetry, and molecular orbital theory will be covered to help understand the chemistry of metals in contrast to carbon-based chemistry.

When: Monday, Wednesday, and Friday from 3:00 to 3:50 p.m., in Chem102

Instructor: Dr. William R. Laws, Chem304, 406.233.9859 (Google voice), bill.laws@umontana.edu

Office hours: Mornings MWF, or by appointment


Evaluation: four 25-point quizzes; three 100-point exams; and a 200-point final exam

Course Overview:
- Exam 1: Quantum Chemistry, Symmetry, Point Groups, Character Tables
- Exam 2: Molecular Orbitals, Polyatomic Molecules, Crystal Structures
- Exam 3: Coordination Chemistry, Bonding Theories, Spectroscopy
- Final

Notes:
- Quizzes are at the beginning of class over topics covered since the previous quiz or exam.
- Mid-term exams will be on the material last covered.
- The final exam is comprehensive.
- Missed quizzes or exams will receive a grade of zero.
- If you have a conflict with a quiz or exam date, see Dr. Laws at least one week prior to that date.
- The final grade will use the ± grading system.
- Lesson slides, and answers to quizzes and exams will be on Moodle.
- Suggested problems from the text will be gived weekly; they will not be collected or graded.
- Any student with a disability should contact Prof. Laws during the first week of the course. Information on disability accommodations is available on the University of Montana Accessibility Website.
- All students must practice academic honesty. See the Student Conduct Code for the definition and potential consequences of academic misconduct and plagiarism.
- Details about add/drop policies are available in the Autumn 2018 Official Dates and Deadlines file on the Registrar's website.
- This course syllabus is not a contract; it is a tentative outline of course policies. Changes may be made before or during the semester at the discretion of Prof. Laws.