CHEM 531 Section 001, Spring 2014 Course Syllabus

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Meeting Times: Monday 12:30 – 1:20 PM, Sims 113C
Thursday 2:00 – 4:50 PM, Sims 310

Credit Hours: 1

Course Website: http://bit.ly/CHEM531

Textbook: *Synthesis and Technique in Inorganic Chemistry,* 3rd ed., Girolami et al.
Other Required Materials: Safety Glasses

Web Resources: Information (e.g. lecture notes) will be distributed through the course website.

Course Goals:

Synthesis and characterization of inorganic compounds, including main-group, transition-metal and organometallic species

Student Learning Objectives:

- To learn synthesis and characterization techniques employed in all sub-fields of inorganic chemistry, including solid-state, main-group, coordination, organometallic and bioinorganic disciplines
- To learn current, practical applications of the theoretical concepts discussed in Inorganic Chemistry lecture (CHEM 530)

Laboratory Safety:

You are expected to adhere to the safety policies outlined in the Chemistry Department's General Safety Rules and Instructions (available in the online Chemical Hygiene Plan – Section G – on the Faculty page at chem.winthrop.edu), highlights of which will be discussed in class. Please alert an instructor promptly when questions or concerns arise.

Preparation:

You are expected to read the week's laboratory experiment and any assigned handouts **prior to pre-lab lecture on Monday**. The lecture should supplement your understanding of the material, but is not intended as a substitute for advance preparation.

Attendance:

You are expected to attend all lecture and laboratory sessions in their entirety. If you fail to attend the pre-lab lecture or arrive late to the laboratory on Thursday, you may not be permitted to complete that week's work. Please notify the instructor in advance of any planned absences.

Assignments:

Pre-Lab Assignments:
There will be a brief pre-lab assignment for each of the eight scheduled experiments. These will be due at the beginning of lab on Thursday.

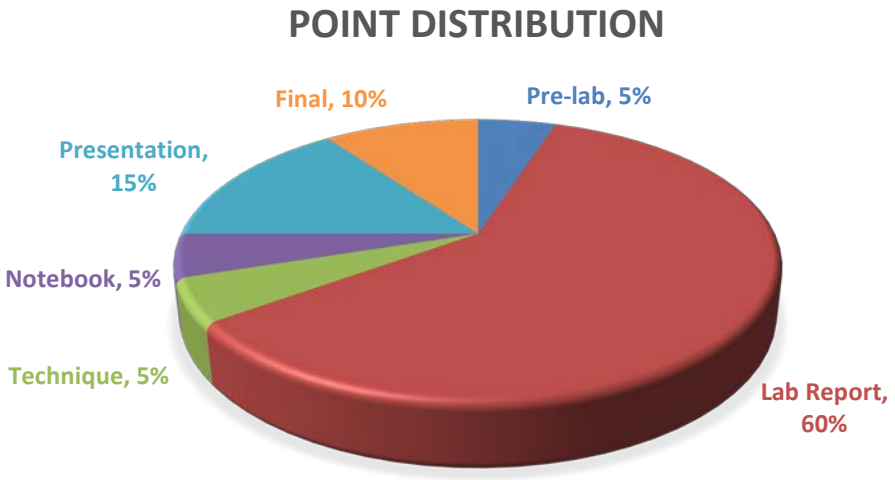
Lab Reports:
You will be required to turn in some form of culminating assignment (i.e., "lab report") for each experiment; details will be provided in class. In some cases, this will consist of a formal written report, comprising Abstract, Introduction, Experimental Methods, Results, Discussion, Conclusion and References sections. In other instances, it may consist of informal answers to questions. All assignments must be completed **individually**, even if the laboratory work was performed with a partner or group. Reports are due on the dates indicated on the course schedule or as announced in class. Late reports will be penalized 5% per day, not counting weekends.

Laboratory Technique:
You will be evaluated based on your participation and technique in the laboratory. 50% of this grade is based on a critique by your lab partner(s) and the other 50% is based on the professor's observation.

Individual Project:
Each student group is required to complete an individual project; a list of suggested projects is available upon request. Each project MUST be approved by Spring Break (3/14). This project will be described in a formal report due on the last day of the term (4/28).

Presentation:
Each student will give a 15 minute presentation on their individual project. This must include discussions of

Exams:
One final exam will be given to assess your understanding of the theory and procedures learned throughout the semester. No make-up exams will be given. You must take the final exam in order to pass the course.



A: > 92% A-: > 90 B+: > 87% B: > 82% B-: > 80%C+: > 77%
C: > 72% C-: > 70% D: > 60% F < 60%

Technology in the Classroom: Out of respect for everyone in the room, please turn your cellular telephones to 'Silent' and (if applicable) mute your laptop computers. Laptop computers or tablet computers (e.g. Ipads) may only be used for taking notes during the class period or interactive activies. Students failing to adhere to these rules will be asked to leave should their behavior prove disruptive to the class. No telephones or laptops may be used during exams or quizzes.

Drop Policy: As described in the Winthrop University Undergraduate catalog

Student code of conduct: As noted in the Student Conduct Code: "Responsibility for good conduct rests with students as adult individuals." The policy on student academic misconduct is outlined in the "Student Conduct Code Academic Misconduct Policy" in the online *Student Handbook* (http://www2.winthrop.edu/studentaffairs/handbook/StudentHandbook.pdf).

Students with Disabilities: Winthrop University is dedicated to providing access to education. If you have a disability and require specific accommodations to complete this course, contact Services for Students with Disabilities, at 323-3290. Once you have your official notice of accommodations from Services for Students with Disabilities, please inform me as early as possible in the semester.