CHEMISTRY 213 - LABORATORY SCHEDULE
Spring 2017

TEXT/MATERIALS: Laboratory worksheets and POGIL handouts are available on the Blackboard website. Lab manual: *CHEM 213*, Fountainhead Press (2016); ISBN 978-1-68036-296-1.

REQUIRED EYE PROTECTION: Students must wear the approved goggles issued by the department ***at all times in the laboratory—NO EXCEPTIONS***.

Week of:	**EXPERIMENT**
1. Jan. 23rd	**CHECK-IN / SAFETY ORIENTATION** : Safety in the Laboratory; Glassware & Equipment/Data Representation and Recording
2. Jan. 30th	Determining Solubility of an Unknown Salt at Various Temperatures
3. Feb. 6th	Colligative Properties of Solutions - Freezing Point Depression
4. Feb. 13th	Reaction Kinetics – Determining a Rate Law
5. Feb. 20th	Chemical Equilibrium and Le Chatelier's Principle
6. Feb. 27th	Determining K_{eq} for Iron Thiocyanate by Spectrophotometry
7. Mar. 6th	**LAB MIDTERM EXAM**
8. Mar. 13th	**SPRING BREAK**
9. Mar. 20th	Determining the Acid Dissociation Constant, K_a, for a Weak Acid
10. Mar. 27th	Determining K_{sp} of Lead(II) Iodide
11. Apr. 3rd	Qualitative Analysis of a Group of Anions
12. Apr. 10th	Estimation of Absolute Zero
13. Apr. 17th	Electrochemical Cells and the Nernst Equation / **CHECK OUT**
14. Apr. 24th	**LAB FINAL EXAM**

***FAILURE TO CHECK OUT MAY RESULT IN A FAILING GRADE FOR THE ENTIRE SEMESTER**.

Grading: The overall lab grade is a weighted average, and is calculated using the formula below:

(Lab average x 0.70) + (Midterm Exam x 0.15) + (Final Exam x 0.15) = lab grade

Letter grades are assigned based on the overall lab grade compared to the following cutoffs:

90% = A; 80% = B; 70% = C; 60% = D; <60% = F