CHEMISTRY 213 - LABORATORY SCHEDULE

Fall 2019

TEXT/MATERIALS: Laboratory worksheets and handouts are available on the Blackboard website.

Lab manual: CHEM 213, Lab manual: CHEM 213, Fountainhead Press (2018); ISBN 978-1-68036-696-9

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. Aug. 26th	**CHECK-IN / SAFETY ORIENTATION:** Safety in the Laboratory; Glassware & Equipment/Data Representation and Recording.)
2. Sep. 2nd	**Labor Day (Holiday_ No labs)**
3. Sep. 9th	Determining Solubility of an Unknown Salt at Various Temperatures
4. Sep. 16th	Colligative Properties of Solutions - Freezing Point Depression
5. Sep. 23rd	Reaction Kinetics – Determining a Rate Law
6. Sep. 30th	Chemical Equilibrium and Le Chatelier's Principle
7. Oct. 7th	Determining K_{eq} for Iron Thiocyanate by Spectrophotometry
8. Oct. 14th	**LAB MIDTERM EXAM**
9. Oct. 21st	Determining the Acid Dissociation Constant, K_a, for a Weak Acid
10. Oct. 28th	Determining K_{sp} of Lead(II) Iodide
11. Nov. 4th	Qualitative Analysis of a Group of Cations
12. Nov.11th	Estimation of Absolute Zero
13. Nov. 18th	Electrochemical Cells and the Nernst Equation / **CHECK OUT**
14. Nov. 25th	**Thanksgiving (Holiday_ No labs)**
15. Dec. 2nd	**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 grade = (Lab average x 0.70) + (Midterm Exam x 0.15) + (Final Exam x 0.15)

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