

**CHEMISTRY 212 - LABORATORY SCHEDULE**  
**Summer 2015**

**TEXT/MATERIALS:** Laboratory worksheets and POGIL handouts are available on the Blackboard website. Lab manual: *CHEM 212*, Fountainhead Press (2014); ISBN 978-1-59871-9239.

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

Date	EXPERIMENT
1. Jun. 16 <sup>th</sup>	<b>CHECK-IN / SAFETY ORIENTATION:</b> Safety in the Laboratory; Glassware & Equipment/Data Representation and Recording
3. June 18 <sup>th</sup>	Separation and Recovery of Components in a Ternary Mixture
4. June 23 <sup>rd</sup>	Determining the Empirical Formula of Magnesium Oxide
5. June 25 <sup>th</sup>	Stoichiometry - A Mole Ratio Study
6. June 30 <sup>th</sup>	Classifying Chemical Reactions
7. July 2 <sup>nd</sup>	Redox Chemistry - Activity of Metals
8. July 7 <sup>th</sup>	<b>LAB MIDTERM EXAM</b>
10. July 9 <sup>th</sup>	Determination of the Universal Gas Constant, R
11. July 14 <sup>th</sup>	Calorimetry and Hess's Law
12. July 16 <sup>th</sup>	The Bohr Model and Spectroscopy of the Hydrogen Atom
13. July 21 <sup>st</sup>	Periodic Properties of Some Elements
14. July 23 <sup>rd</sup>	Lewis Structures and Molecular Shape / <b>CHECK OUT</b>
15. July 28 <sup>th</sup>	<b>LAB FINAL EXAM</b>

**\*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:

$$(\text{Lab average} \times 0.70) + (\text{Midterm Exam} \times 0.15) + (\text{Final Exam} \times 0.15) = \text{lab grade}$$

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

$$90\% = \text{A}; \quad 80\% = \text{B}; \quad 70\% = \text{C}; \quad 60\% = \text{D}; \quad <60\% = \text{F}$$