Syllabus

CHE 141: General Chemistry Laboratory **Fall 2013**

Credit: Zero hours
Instructor: Dale Rosado **Office Hours:** M,T,F 2-5 PM
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Text: Chemistry Principles in the Laboratory: Mississippi College Custom Manual, Slowinski, Wolsey, Masterton and Benton. Seventh edition, 2008.

Prerequisites: This course is taken with General Chemistry, CHE 141.

Disclaimer: Although we expect to conduct the course according to the following, we reserve the right to make modifications if circumstances dictate.

Course description: The course meets three hours per week to reinforce chemical concepts covered in the lecture.

Rationale: This course will provide practical experiences that will lead to a general understanding of chemistry for the non major as well as a foundation in chemistry for future study for the science major.

Attendance: Attendance in Chemistry Laboratory is required for all students enrolled in CHE 141. In the event that an absence is unavoidable, permission to make up the laboratory must be obtained. You must see me in my office, H 402, to get a make-up lab admit slip. The regular "make-up" lab is Thursday at 6:00. When an absence is anticipated by the regular Thursday night students, they should arrange to do their lab earlier in the week.

Grading: At the beginning of each lab there will be a pop test covering that lab. It will be worth 5 points. Each of the 10 labs will be graded and given a score from 1-10. There is a mid-term exam worth 25 points and a final exam worth 25 points. The sum of these points (maximum 200) goes toward the final lecture grade. Check with your professor to see how he or she uses the lab grade to calculate your final average.

Assignments: Most labs have an Advanced Study Assignment or Pre Lab that is to be done **before** lab. They are turned in as soon as you get to class. They are a part of the laboratory grade. They are also a source of pop test questions.

Academic integrity: Mississippi College students are expected to be honest. Please refer to University Policy 2.19 for specific information regarding penalties associated with dishonest behavior at Mississippi College. (also see *2013-2014 Mississippi College Undergraduate Bullentin*)

See lecture syllabus for special accommodations.

CHE 141 Laboratory

Fall 2013

Week of		**Experiment**
Aug 27	Safety; Introduction to *OWL*	
Sep 3	Check-in; Density of Solids and Liquids	Experiment 1
Sep 10	Paper Chromatography	Experiment 2
Sep 17	Fractional Crystallization	Experiment 3
Sep 24	Properties of Oxygen and Some Oxides	Experiment 4
Oct 1	Synthesis of Soap	Experiment 5
Oct 8	Fall recess	
Oct 15	Mid-Term Exam	
Oct 22	Determination of a Chemical Formula	Experiment 6
Oct 29	Alkaline Earths and the Halogens	Experiment 7
Nov 5	Limiting Reagent, Stoichiometry and the Mole	Experiment 8
Nov 12	Molar Mass of a Volatile Liquid	Experiment 9
Nov 19	Heat effects and Calorimetry	Experiment 10
Nov 26	Thanksgiving recess	
Dec 3	Final Exam	