SYLLABUS

CHE 142, General Inorganic Chemistry Laboratory Spring 2011

Credit: Zero semester hours Instructor: Leland Benton Office: 309 Hederman Science Phone: 925-3853(office)

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Office hours: MWF 10:00-11:30; TR 11:00-12:00

Text: Chemistry Principles In The Laboratory: Mississippi College Custom Manual, Slowenski, Wolsey,

and Masterton, Compiled and edited by Leland Benton, third edition, 2008.

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

CHE 142

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 science major as well as a foundation in chemistry for future study for the science major. Development of problem solving and critical thinking skills will be stressed.

Attendance: Attendance in Chemistry Laboratory is required for all students enrolled in CHE 142. In the event that an absence is unavoidable, permission to make up the laboratory must be obtained. You must see me in my office, room 309, to get a make-up lab admit slip. The regular Amake-up lab@ is Wednesday at 6:00. When an absence is anticipated by the regular Wednesday 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 uses the lab grade to calculate your final average.

Assignments: Each lab has an AAdvanced Study Assignment@ that is to be done before lab. They are turned in as soon as you get to lab. They are a part of the laboratory grade.

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 2010-2011 Mississippi College Undergraduate Bullentin)

Tutorials: There will be a scheduled help session each Monday from 4:00 til 5:00 pm. It will be held in H312. It is most efficiently run if you will bring specific questions or problem types to the session.

Tuition refunds: The last day to drop a class with 100% refund of tuition is January 20.

CHE 142 LABORATORY

Spring 2011

Week	Experiment
January 11	The Geometrical Structure of Molecules; Experiment 11
January 18	Spot Tests for Some Common Anions; Experiment 21
January 25	Preparation of Aspirin; Experiment 12
February 1	No labs this week
February 8	Molar Mass Determination by Depression of the Freezing Point; Experiment 13
February 15	Rates of Reaction; Experiment 14
February 22	Mid-term Exam
March 1	Determination of the Equilibrium Constant; Experiment 15
March 8	Standardization of a Basic Solution and the Determination of the Equivalent Mass of an Acid, Experiment 16
March 15	SPRING BREAK !!
March 22	Qualitative Analysis of Group I Cations, Experiment 17
March 29	Qualitative Analysis of Group II Cations, Experiment 18
April 5	Qualitative Analysis of Group II Cations, Experiment 18
April 12	Qualitative Analysis of Group III Cations, Experiment 19
April 19	Final Exam

LAST DAY TO DROP IS MARCH 25.