Course	Principles of Chemistry Laboratory I / CHM 217		
Title/Number	Sections 103 & 104		
Semester/Year	Fall 2014		
Days/Time	8:00-10:50 AM Tuesday		
Location	473 Science Hall (pre-lab lecture), 474/476 (laboratory)		
Instructor	Dr. Laura McCunn-Jordan ***PLEASE CALL ME DR. MCCUNN		
Office	466 Science Hall; research lab: 404 Science Hall		
Phone	(304) 696-2319		
E-Mail	mccunn@marshall.edu		
Office Hours	9:00-11:00 AM Monday, Wednesday, Friday; other times by appointment. I welcome drop-in visits, but I am not always available outside of office hours. Simple questions can be answered via email.		
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to www.marshall.edu/academic-affairs and clicking on "Marshall University Policies." Or, you can access the policies directly by going to http://www.marshall.edu/academic-affairs/?page_id=802		
	Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment		

Course Description:

A laboratory course that demonstrates the application of concepts introduced in CHM 211. 2.00 credits. Corequisite or prerequisite: CHM 211

Required Texts, Additional Reading, and Other Materials

- 1. CHM 217 Lab Manual
- 2. access to MU Online and a Marshall email account
- 3. composition notebook (not spiral-bound) and blue/black ink pen
- 4. indirectly vented chemical safety goggles
- 5. roll of paper towels for cleanup
- 6. non-programmable calculator for tests and exams (it must not have keys for the alphabet)
- 7. ACS academic lab safety guide http://portal.acs.org/portal/PublicWebSite/about/governance/committees/chemicalsafety/publications/WPCP_012294

Student Learning Outcomes	How students will practice each outcome in this course	How each outcome will be assessed in this course
Students will know and follow safety rules in the chemical laboratory.	safety training at MU Onlinereading laboratory manual	 online safety quiz midterm and final exams instructor's observation
Students will learn how to properly use and care for laboratory equipment.	reading laboratory manualprelab lecturelaboratory experiments	lab reports instructor evaluation
Students will learn how to record and communicate laboratory experiments and results.	 reading laboratory manual prelab lecture laboratory experiments	lab notebook lab reports
Students will apply concepts introduced in chemistry lecture (CHM 211).	reading laboratory manuallaboratory experimentslaboratory calculations	pre- and postlab questionsmidterm and final exams

Grading Policy

prelab quizzes* lab reports (including postlab questions)*	50 500	points points
midterm exam	100	points
final exam	150	points
instructor's evaluation of student performance**	50	points
	1000	TOTAL POINTS

^{*}Your lowest lab report grade and your lowest quiz grade of the semester will be dropped. Lab reports and postlab questions must be submitted before the end of prelab lecture. Late reports will not be accepted without a university-approved excuse or prior approval from the instructor.

Grading Scale A: 90-100%, B: 80-89%, C: 70-79%, D: 60-69%, F: 0-59% The percentage of total points earned will be rounded to the nearest whole percentage. The final grading scale may be adjusted in order to lower the threshold for a letter grade. If you believe there has been an error in the grading of your work, please consult Dr. McCunn.

^{**}The instructor's evaluation of student performance will be based on observation of safety rules and proper maintenance of laboratory facilities. Students may lose these points for offenses such as, but not limited to: tardiness, improper waste disposal, safety violations, leaving a mess on the balances, failure to return/store lab equipment before leaving lab.

Attendance Policy

Attendance is required to complete and receive credit for experiments. Students with excused absences must contact the instructor as soon as they are permitted to return to campus in order to schedule a make-up lab. Please do not wait until the following week's lab to make arrangements. If you anticipate missing a lab, notify the instructor as soon as possible. It *may be possible* to make up the lab in the same week with a different section and instructor. *Permission from Dr. McCunn and the alternate instructor is required.* If class is cancelled unexpectedly, scheduled assignments will be due and scheduled tests will be given during the next class meeting.

Lab Safety

The safety rules for the laboratory are outlined in your lab manual. Safety training must be completed at MU Online prior to the given deadline or the student will be denied admission to the lab. Proper clothing is of the utmost importance. This means that legs should be covered down past the knees (pants are best) and bare midriffs are forbidden. Shoes must completely cover feet, over the top of the foot. (No ballet flats or sandals.) If your attire is unsafe, points may be deducted from your grade and you must change before entering the lab. Any reckless disregard for safety (horseplay, frequent lapses in wearing of goggles, etc.) may result in dismissal from the lab and failure of the course. Cell phones, MP3 players and similar electronic devices should not be used while in the lab. Students who are tardy and miss safety briefings in pre-lab lecture may be denied entry to lab that day.

Miscellaneous Policies

Use of cell phones / PDAs / MP3 players and similar devices during tests and exams will be considered as cheating. The only materials permitted during a test are a non-programmable calculator, pen/pencil, and those provided by the instructor. Class announcements may occasionally be made via email to your university email address. Please check it on a regular basis. Supplemental course materials and due dates will be posted at MU Online.

Course Schedule

Course ochequie				
Date	Experiment #	Topic		
8/26	1	Lab check-in & Density of Water		
9/2	1	Density of Solutions		
9/9	2	Separating Mixture Components		
9/16	3	Determination of the Percent Oxygen in Air		
9/23	4	Determination of an Empirical Formula		
9/30	5	Determination of Avogadro's Number		
10/7	6	Heat of Reaction and Heat of Solution		
10/14	7 / Midterm Exam	Synthesis of an Alum		
10/21	8	Reactions		
10/28	9	Titration of Vinegar		
10/31	last day to withdraw from full-semester courses			
11/4	10	Combustion – Synthesis and Reactions of Oxygen		
11/11	11	Molecular Architecture		
11/18	12	Energy of a Peanut: Calorimetry		
11/25	no class, Fall Break			
12/2	lab check-out / Final Exam			