GENERAL CHEMISTRY I (PHS 1350 AA01, AA02)  
Mineral Area College  
Fall 2012  
5 credit hours

Instructor Name: Dr. Margaret Williams  
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Department Chair Name and Contact Information: Dr. Rhonda Gamble, Office # 31,  573-518-2195, RHONDA@MineralArea.edu

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Textbooks/Supplies:  
The following are REQUIRED:  
Lab book: CER Labs; Cengage  

The following are SUGGESTED:  

Other Materials:  
The following are REQUIRED:  
Scientific calculator (NOT allowed: TI-Nspire calculators or any calculator that can access the internet), scantron forms. For Lab: safety goggles which protect against splashes and impacts, nitrile gloves, lab apron, closed toed shoes

Attendance/Absence Policies:  
In accordance with College policy, students will be dropped from class for nonattendance after two weeks of consecutive unexcused absences.  
After THREE unexcused absences or tardies, each absence or tardy, whether to class or lab, will result in the loss of FIVE points which will be deducted at the end of the semester from the 100 possible attendance points. It is possible for your attendance score to become negative if you lose more than the 100 original attendance points. There are no excused absences with the following exceptions: student athletes to play in a game (not practice), school sponsored field trips, court appearances, military service. Student Athletes must be excused by the Dean of Students (not your coach). Students participating in school sponsored field trips must also be excused by the Dean of Students. Refer to MAC’s Attendance Policy in the Student Handbook and Planner.

Grading Policy / Late or Missed Work / Grading Scale:  
Quizzes: Usually QUIZZES will be announced in advance. “Pop-quizzes” may also be given. The tentative EXAM schedule is shown below. Exams may cover the chapters listed, lab material, and material from previous exams. At the end of the semester, the average of all hour exams will replace the lowest hour exam score.  
Exams: Quizzes or Exams missed because of an unexcused absence or tardy will not be made up unless my permission is given ahead of time. An e-mail or phone call from you indicating that you will be absent, does NOT mean that you will be able to make-up a quiz or exam. Quizzes or Exams missed because of an excused absence are either to be taken early or are to be made up the day the student returns to class. EXAMS that are missed are subject to a 25 point per day penalty unless my permission is given ahead of time. Missed exams will be taken to the Learning Center. It is your responsibility to know your schedule and the exam schedule; so be sure to arrange to take your exam(s) before the respective exam date. Exams are scheduled to be taken during lecture time, however, there might be times when exams would be taken in the Learning Center, outside of regular class time.

Homework:  
Always do the red numbered problems found throughout each chapter. The answers to these problems are in the back of the book. Homework assignments, generally to be turned in on Scantron forms, are given throughout the semester. Scantrons need to be completed in pencil! LATE WORK is subject to a 5 point per day penalty and is not accepted once Scantron forms are returned or once the solutions have been posted, unless my permission is given in advance.

Laboratory:  
You are expected to come to lab prepared: read the lab and complete any pre-lab assignment. You are expected to follow all safety rules, including wearing goggles, gloves, closed toed shoes, and lab apron. Missed labs are not made-up. If you miss a lab because of an unexcused absence, you lose all the points associated with that lab. In General: Pre-Lab assignments are due BEFORE the lab begins, so be sure to obtain help before the lab begins. Data Sheets and Post-Lab questions are due at the beginning of the next lab period. Always show your work on all calculations, include units and watch significant figures. This often means showing your work on a separate piece of paper.

Extra Credit:  
There are extra credit assignments or quizzes given during the semester. One MAC Special Events Cards may be turned in for 2 points per event. Sports events are limited to one of each type per semester. The MAC Special Events Cards are available in the Student Services Office. A maximum of 10 extra credit points can be earned by using MAC Special Events Cards.

CoursEval:  
If the CoursEval Survey is to be completed toward the end of the semester, a MAC e-mail will be sent indicating the available dates, the link to the site, and the necessary login and password. MAC e-mail reminders will be sent to remind students to complete the survey. If the Survey is to be completed, it will count as a homework assignment. These surveys help me become better at teaching you, so please take them seriously – I certainly do. The results of the survey are not made know to the instructor until the next academic semester

5 Exams, 100 points each  
500 points  
Tentative Grading Scale:  
Exam 1 Weds Sept 5  
Exam 2 Weds Sept 26  
Exam 3 Weds Oct 24  
Exam 4 Weds Nov 14  
Exam 5 Weds Dec 3

5 Exams, 100 points each  
500 points  
Tentative Grading Scale:  
Exam 1 Weds Sept 5  
Exam 2 Weds Sept 26  
Exam 3 Weds Oct 24  
Exam 4 Weds Nov 14  
Exam 5 Weds Dec 3

Final Exam, Comprehensive  
200 points  
A 100-90%  B 89-80%  
Exam 1 Weds Sept 5  
Exam 2 Weds Sept 26  
Exam 3 Weds Oct 24  
Exam 4 Weds Nov 14  
Exam 5 Weds Dec 3

Homework, Quizzes about 600 points  
C 79-70%  D 69-60%  
Chapters 1-2  
Chapters 3-4  
Chapters 5-7  
Chapters 8-9  
Chapters 10-11

Laboratory - Reports about 300 points  
F 59%-below  
Exam 4 Weds Nov 14  
Exam 5 Weds Dec 3

Attendance  
100 points

College’s Policies:

Non-Discrimination Policy:  
Mineral Area College does not discriminate on the basis of race, color, national origin, gender, disability, age, religion, creed, or marital or parental status. For more information, call the Title VI, Title IX, Sec. 504 and ADA coordinator at (573) 518-2262 or U.S. Dept. of Education, Office of Civil Rights.

ADA Policy:  
If you have special needs as addressed by the Americans with Disabilities Act and need any test or course materials provided in an alternative format, notify your instructor immediately. Reasonable efforts will be made to accommodate your special needs. The Access Office is located in T13, under the direction of Lisa Lefftridge, extension 2152. Refer to MAC’s Services offered by MAC’s Access Office in the Student Handbook and Planner.

Dishonesty Policy:  
Cheating implies that an answer or information has been obtained dishonestly from another person or source with the intent of using that information to benefit oneself. Plagiarism occurs when another person’s written work is presented as one’s own. Dishonesty, plagiarism, or cheating will not be tolerated and will result in disciplinary action, depending on the offense, ranging from a zero on the assignment to being suspended from MAC. At minimum an Academic Dishonesty Report will be filed with the Dean of Students. A repeat incident will result in an F for this course, and further incidents could result in suspension from this college. Refer to MAC’s Academic Integrity Policy in the Student Handbook and Planner.

Behavior Policy:  
You are to respect the learning environment of fellow students and realize that your behavior greatly impacts others. Disruptive behavior, whether in the classroom or the lab, will not be tolerated and will result in the disciplinary action, depending on the offense, ranging from the loss of that day’s attendance points to being dismissed from class. Examples of disruptive behavior include, but are not limited to: disruptive whispering / talking / chattering during class, coming to class late, getting up during the middle of class.
Learning Chemistry is much like learning a new language, some find it easier than others. The use of electronic devices, including answering your cell phone or texting, during class or lab, without prior approval of the instructor, could result in the ENTIRE CLASS LOSING THAT DAY’S ATTENDANCE POINTS. Refer to MAC’s Classroom Electronic Use Policy in the Student Handbook and Planner, which includes a list of electronic devices that should not be accessible without instructor approval.

Food/Drink Policy: To decrease the risk of illness, NO FOOD IN THE CLASSROOM. You may have water / soda / coffee in the classroom unless/until it becomes a problem. You are responsible to clean up any spilled drinks in the classroom. Absolutely NO FOOD or DRINK in the LABORATORY.

Honors Option: This class does not have an Honor’s Option.

COURSE DESCRIPTION:
The first of a two-semester presentation of the fundamental concepts of chemistry for the science and engineering major. The laboratory emphasizes quantitative measurements and procedures. The course consists of two 1½-hour lecture-discussion periods, one 1-hour problem period, and one 3-hour laboratory per week. Students are expected to have a good background in algebra and a fundamental knowledge of chemical terminology.

Prerequisites for this course: One unit of high school chemistry. High school physics is recommended. A grade of “C” or better in MAT123—College Algebra, or accompanied by MAT123—College Algebra or MAT165—Calc

Course Objectives: At the completion of the course, the student will have encountered situations where the following were experienced:

A. Instruction in modern chemical theory of atomic and molecular structure.
B. Investigations into physical properties, behaviors, and interactions of chemicals.
C. Development and expansion of scientific curiosity and innovation through laboratory investigations.
D. Development and expansion of fundamental laboratory skills and techniques of analysis.
E. Individual investigations related to the fundamental question in chemistry: “Why and how do chemical reactions occur?”
F. Evaluation of experimental data and information from reference sources presented in laboratory reports.
G. Facts and figures about the chemical industry, its significance in our society, career opportunities available in chemistry and related fields.
H. The building of an intellectual and cognitive framework on which to hang ideas, principles, and related information obtained through further study in the field of chemistry and allied areas.

Learning Experiences:
A. Students will take part in lecture-discussions coordinated with reading assignments in the text. In order to do so, students are expected to have read the assignment prior to class time.
B. Students will view various visual materials such as videos, PowerPoint slides, and transparencies, during lectures and laboratories to stimulate interest, clarify concepts, and enrich course content.
C. Students will perform various investigations in the laboratory which are pertinent to and coordinated with lecture topics.
D. Students will participate in a problem session designed to develop and expand calculator skills needed in chemistry.

Course Content:

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To be successful in this class: It is so important to read the book, practice the problems, keep up, and get help!

--- COME TO CLASS AND COME PREPARED You can’t get it if you are not here!
Read the chapter before class. Work through the example problems. Ask questions during class. Ask questions after class. Stay for office hours to work on homework and ask questions. Come to my office for help before it is too late. Ask questions.

--- DO YOUR HOMEWORK AS SOON AS POSSIBLE and GET HELP Practice, Practice, Practice!
Make out note cards… especially for nomenclature, concepts, definitions, formulas, example problems. Lengthy homework gives you plenty of practice. Repetition and practice is the key. Practice problems until you can do them without help, then change some numbers, and do the problems again. Take your time and show your work when doing homework problems so that you remember how to do the problems when studying for the exam. Learn to recognize problems or concepts by types. Use the solutions manual as a guide, not as a crutch. Form study groups. Make a new friend. Stay for office hours or come to my office for help. Do NOT copy your answers from anyone! Learn how to do the homework yourself because it is very similar to the exam.

--- WORK AT IT DAILY Keep up. Time Management!
Set aside two – three hours a night, every night, to keep up with lecture and lab material. This is a 5 credit hour, 7 contact hour course… that is more time than two 3 hour courses put together. Learning Chemistry is much like learning a new language, some find it easier than others.

Learning Chemistry takes time, a great deal of effort, lots of practice, and the will to succeed.

Stay for office hours or stop by my office, #29, anytime for help. See the EXCEL Program, Room C3 on the Park Hills Campus, for free tutoring.
It is normal to feel overwhelmed, stressed, or lost at times. If you are struggling, see me for help.
I’ll do my best to find a way to help you understand the material.