

Course Syllabus
CHM 109: Chemistry in the Home
Fall 2014

Instructor: Dr. Hasan El-Rifai

Email: Hasan.El-Rifai@mail.wvu.edu

Credit: 4.00 hours

Course Time & Location:

Hurricane High School 7:30 - 9:50 PM Mondays

Prerequisites:

MTH 121 or MTH 121B or MTH 121H or MTH 122 or MTH 123 or MTH 123E or MTH 125 or MTH 127 or MTH 130 or MTH 130E or MTH 130H or MTH 131 or MTH 132 or MTH 140 or MTH 190 or MTH 203 or MTH 220 or MTH 225 or MTH 229 or MTH 229H

Recommended Materials:

There is no required textbook for this class. You will be able to complete the quizzes in this class by using the on-line notes.

Issues:

We will examine the nature of materials commonly found in the home and try to learn how to evaluate whether or not they are hazardous. We will examine several factors such as possible acute toxicity, long term exposure hazards, synergism with other materials, flammability and explosion hazards, and environmental impact from improper use and/or disposal. In all cases we will endeavor to learn how to distinguish levels of hazard associated with these materials.

Objectives:

The primary objective of this course is to provide the student with an introduction to the basic concepts of chemical science as it applies to materials commonly found in the household. Within this framework, it is expected that the student will learn how to examine and process information, ask critical thinking questions and build problem-solving skills. It is hoped that at the end of this course a student would be able to read a newspaper or magazine article relating to chemistry and intelligently evaluate it. This is a four credit hour course with two contact hours per week; the lecture part of the class is conducted on-line.

Effort Required:

This course fulfills the Integrated Science requirement for many degree programs. A considerable effort is required of the students. The student should expect to spend at least 12 hours of effort outside the class each week in order to read the on-line notes, take on-line quizzes and prepare lab reports. Depending on background and preparedness, some students may have to spend more time on this course.

Withdrawal Policy:

The University withdrawal policy is followed in this course.

Mandatory Laboratory Safety Training:

All students are required to successfully complete the online laboratory safety training module before they can work in the laboratory. Failure to complete this training during the first week of the semester may result in the student being administratively withdrawn from the course.

Class Attendance

You need to come to class so that you can perform the labs. A student needs to complete all of the labs or the student will receive a grade of D or F.

Grading:

Final Exam: This exam will be multiple choice and will account for **25%** of the course grade. The final exam is taken on-line and you can only take the final exam once.

Labs: Lab reports constitute **35%** of your grade. In most cases, the lab report is completed during the lab and you will turn it in after you complete the lab. A Microsoft Word file for each lab that we will be doing in class will be emailed to you. It is your responsibility to print a hard copy of the lab and bring it to lab so that data can be entered into it. The make-up of labs will be handled on a case-by-case basis.

Quizzes: constitute **40%** of your grade. Every student is required to take on-line quizzes on each chapter using WebCT. These quizzes are multiple-choice. The purpose of the quizzes is to ensure that you have understood the material. A set of on-line lecture notes is also on-line. If you obtain a quiz score of less than 75%, you must retake the quiz until you achieve a minimum score of 75%.

To complete this course, all of the quizzes must be taken and a minimum score of 75% must be obtained on ALL quizzes. **The number of retake for the quizzes is unlimited.**

ALL QUIZZES AND THE FINAL EXAM MUST BE TAKEN BY 9:50 pm, Monday 12/08/2014.

You can access the quiz for each chapter by clicking on the last entry in the table of contents for each chapter. **Any Exam, Lab report, or Quiz which is done past 9:50 pm, Thursday 12/08/2014 will NOT BE COUNTED.**

Calculation of Final Grade: Letter grades will be assigned on the basis of:

100-90%= A,
89.99-80%=B,
79.99-70%=C,
69.99-60%=D,
< 60% = F.

Communication:

I will email you frequently so please check your email regularly. E-mail the preferred method for contacting the instructor outside of class.

IMPORTANT: Labs cannot be made up.

Please Remember:

- 1) You need to take all of the on-line quizzes and the final by **Monday 9:50 pm, 12/08/2014.**
- 2) If you are confused or don't understand something, please email me.
- 3) **If you are absent from lab, please email me as to why you were absent and when you think you will be able to return to lab.**
- 4) Please check your email account frequently. Make sure you have sufficient storage space in your email account to accept attachments from me. Delete old emails to free up your allotted disc space.
- 5) If you have a personal crisis in your life, please let me know so we can determine how best to handle the crisis while you are taking this class.
- 6) Please treat me and your fellow students with respect, just as I will treat you with respect.

Policy for Students with Disabilities: Marshall University is committed to equal opportunity in education for all students, including those with physical, learning and psychological disabilities. University policy states that it is the responsibility of students with disabilities to contact the Office of Disabled Student Services (DSS) in Prichard Hall 117, phone 304 696-2271 to provide

documentation of their disability. Following this, the DSS Coordinator will send a letter to each of the student's instructors outlining the academic accommodation he/she will need to ensure equality in classroom experiences, outside assignment, testing and grading. The instructor and student will meet to discuss how the accommodation(s) requested will be provided. For more information, please visit <http://www.marshall.edu/disabled> or contact Disabled Student Services Office at Prichard Hall 11, phone 304-696-2271.

Additional University Policies: For additional university policies that I will adhere to please visit the link: http://www.marshall.edu/academic-affairs/?page_id=802