Chemistry 1211 (KHAN, FALL 2017)

Co-requisite CHEM 1211L

Welcome to CHEM 1211! Chemistry encompasses a wide array of phenomena. Photosynthesis, combustion of fuels, and reactions in the atmosphere are a few examples. Interestingly, the human body may be considered a laboratory with a large number of reactions in progress simultaneously. Fortunately, diverse chemical phenomena are systematically studied using the concepts of structure and energetics. These concepts are a central theme in CHEM 1211.

Four words summarize a tried and tested strategy for learning the most in this course. *Take your homework seriously.* Homework assignments will be given regularly during the semester. As a student, I always found it useful to supplement lectures with informal study sessions with my peers. You will be pleasantly surprised to find that a fellow student can clarify a concept or provide cute short-cuts while solving problems.

**General Information**

**Instructor**  
Farooq A. Khan  
Phone (678) 839 - 6027  
Office: TLC 2-117 (Department of Chemistry, 2nd Floor, TLC)  
email: fkhan@westga.edu

**Class time**  
M, W 12:30 - 1:45 pm; In addition, please attend a Workshop

**Textbook**  
Required, *Chemistry: Structure and Properties* 2nd, Tro  
(Must include Registration Code for Mastering Chemistry)

**Study Guide**  
ACS Study Guide for General Chemistry

**Office Hours**  
Mondays and Wednesdays, 2:15 – 3:15 pm  
Tuesdays, 9:30 am – 12:30 pm  
Thursdays, 9:30 am – 12:30 pm; 1:15 -3:15 pm  
Additional office hours, by appointment

**Important Dates**  
Open drop ends at 11:59 pm on August 11  
Open add ends at 11:59 pm on August 14  
Last day to Withdraw with a grade of W is September 29
Attendance

Attendance is required. If a student misses four or more classes, he or she may be awarded a grade of F for the course.

Learning Outcomes

Student are expected to acquire a basic understanding of the following topics: composition of matter, reactions and reaction stoichiometry, properties of gases, thermochemistry, atomic structure, and chemical bonding. They are also expected to acquire an awareness of the role of chemistry in everyday life.

Examinations

In class examinations will be given on the following Wednesdays:
August 30
September 20
October 25
November 15

The final examination will be given on Monday, December 4, during 11:00 am - 1:00 pm. It is based on all the topics covered during the semester. It consists of multiple-choice questions, and is prepared by the American Chemical Society.

No make up examinations will be given. In case of an illness or a dire emergency, a student may be excused from one in class examination, provided the instructor is contacted prior to the examination. If excused, the score for this examination will be the average of all in class examinations.

Workshop Chemistry

Workshops are an important part of CHEM 1211. In workshops, the large class is broken down into smaller groups. In addition to lectures and co-requisite laboratories, you must attend a workshop that meets once a week outside of class to discuss chemistry problems and improve your understanding of the material.

Workshops are something like study groups, with two prominent differences.
1. Each week’s workshop will go over a set of assigned questions. There will be a workbook available which contains material for each workshop, week by week.

2. Each workshop will be led by a student leader who has had the course previously and who has been trained for undertaking this responsibility. The leader will act more as a facilitator than as a tutor. The purpose of workshops is to build confidence in your own ability to do chemistry problem-solving. Each workshop will be scheduled for a 90-minute block of time. Although some workshops will not last the whole 90 minutes, you should plan on putting this amount of time into each workshop.

Why should you want to commit to 90 extra minutes spent on chemistry each week in addition to your time in class? Here are some good reasons.

- You should plan, on average, to spend at least six hours a week outside of lecture and lab studying chemistry.

- Working with other students and with a leader can be more productive than doing all your studying alone. In the structured workshop setting other students can help you see something you missed and as you explain an idea to someone else it becomes more clear in your own mind. Workshops at other institutions have found that students participating average significantly better on chemistry tests than those not attending workshops.

- **It directly affects your grade.** The workshop portion of your grade will be based on:
  
  1. Attendance. Don’t arrive late; don’t leave early.
  2. Participation in group efforts to solve problems.
  3. Preparation. Practice problems should have been solved, or at least attempted, before the relevant workshop.
  4. Attitude. This style of grading is very unique. Please keep in mind that you are not judged on actual right answers, but the effort you put forth.
Homework

Homework assignments will be given online and counted towards your homework grade.

Please go to the site: pearsonmylabandmastering.com
Your course ID is khan79875

In addition, problems from your textbook will be assigned, but not graded.

iClicker Questions

We will be utilizing iClicker technology. Therefore, you will need to purchase an iClicker from the bookstore and bring it to class every day.

Grades

Your grade will be calculated based on the following components:

In-class examinations (4 @ 100 points each) 400 points
ACS Final 150 points
Workshops 100 points
Online Homework 75 points
iClickers (OR in class work) 75 points
TOTAL 800 points

Letter grades

Score Grade
90% - 100% A
80% - 89% B
65% - 79% C
55% - 64% D
0% - 54% F
University Policies
Please refer to the student handbook for information on academic support, honor code, email policy, credit hour policy and HB 280 campus carry policy
https://www.westga.edu/administration/vpaa/assets/docs/faculty-resources/common_language_for_course_syllabi_v2.pdf

Policy on cheating
Occurrences of cheating are rare. However, cheating by one individual raises questions about fairness for the rest of the class, and indeed, endangers the honor code that governs our examination system. It is after considerable thought and agonizing that I have arrived at the following formula. If an individual cheats on an examination for the first time, he/she will obtain a score of zero for that particular examination. If an individual is caught cheating a second time during the semester, he/she will receive a grade of F for the entire course.