Chemistry 1211 (Leslie, Fall 2016)

Co-requisite CHEM 1211L

Instructor
Logan Leslie
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email: lleslie@westga.edu

All contact via email should be through your University of West Georgia email account.

Class time
M and W: 12:30-1:45 PM

Required
Textbook: Chemistry: Structure and Properties, Tro
Modified Mastering Chemistry
Modified Mastering Chemistry registration code: leslie69016
www.pearsonmastering.com

An I>Clicker2 or I>Clicker

Office Hours
M: 2:00-4:00 pm
Tu: 10:30 – 12:30 pm
Th: 1:30 pm – 3:30 pm
Additional office hours, by appointment

Learning Outcomes

1. Students will be able to apply knowledge of the properties of energy and matter to describe chemical systems.

2. Students will be able to use available data (such as mass of a particular substance) to be able to determine additional features of materials (such as calculating the number of atoms in a gas present in a container based on its pressure and volume)

3. Students will be able to make predictions of chemical reaction outcomes based on available chemical data available to them.

4. Students will be able to relate and apply concepts from the course to situations from everyday life.
Grades:
Exams - 55% total (4 exams)
Final Exam - 15%
Clicker - 10%
Homework - 10%
Workshop - 10%

Final Grade:
A- 89.5-100  D- 59.5-69.5
B- 79.5-89.4  F- 0-59.4
C- 69.5-79.4

Examinations

In class examinations will be given on the following days:

August 31
September 28
October 26
November 30

The final examination will be given on Wednesday, Dec. 7 from 11:00 am -1:00 pm.

The score on the final exam will be used to replace your lowest test score if the final exam score is higher than your lowest test score.

The final will be the American Chemical Society standardized test which will cover the entire semester. A standard 10 point scale will be used. Make-up exams must be arranged ahead of time and must be taken before the class meeting after the exam. If this is not possible the final exam score will take the place of your missed exam. No extra time will be given for exams, so please arrive on time. No extra credit will be offered.

Attendance/Clicker questions

You are expected to come to class. This will show up in your clicker grades as they will require you to be in class to complete.

Starting on Wednesday August 17th you will be expected to have your iclicker with you in class to be able to respond to questions. At the end of the semester your clicker grade will be determined out of 90% of the possible points. This means that your grade will not be negatively impacted by the first 10% of the clicker score that you are missing so that a single day of not getting the clicker questions will not hurt your grade but repeated absences will. If there are extenuating circumstances that will cause you to miss a significant amount of class (as opposed to a single day) you will need to let me know and we will need to discuss what can be done.

For clicker questions you will earn 50% of the points by answering the questions and the other 50% based on whether you have the correct answer or not (meaning simply answering the questions earns half credit while getting the correct answer earns full credit).
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 class 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 two-hour block of time. Although some workshops will not last the whole two hours, you should plan on putting this amount of time into each workshop if you elect to participate.

Topics to be Covered:

Exam 1:
Chapter 1 Atoms
Chapter 2 Measurement, Problem Solving, and the Mole Concept
Chapter 3 The Quantum-Mechanical Model of the Atom
Part of Chapter 4 Periodic Properties of the Elements

Exam 2:
Remainder of Chapter 4 Periodic Properties of the Elements
Chapter 5 Molecules and Compounds
Chapter 6 Drawing Lewis structures and Determining Molecular Shapes
Chapter 7 Chemical Bonding Valence Bond Theory and Molecular Orbital Theory (time permitting)

Exam 3:
Chapter 7 Chemical Bonding Valence Bond Theory and Molecular Orbital Theory 9 (if not covered on exam 2)
Chapter 8 Chemical Reactions
Chapter 9 Solutions and Aqueous Reactions

Exam 4:
Chapter 10 Thermochemistry
Chapter 11 Gasses

Academic Support:
Accessibility Services:
Students with a documented disability may work with UWG Accessibility Services to receive essential services specific to their disability. All entitlements to accommodations are based on documentation and USG Board of Regents standards. If a student needs course adaptations or accommodations because of a disability or chronic illness, or if she/he needs to make special arrangements in case the building must be evacuated, the student should notify his/her instructor in writing and provide a copy of his/her Student Accommodations Report (SAR), which is available only from Accessibility Services.

Faculty cannot offer accommodations without timely receipt of the SAR; further, no retroactive accommodations will be given. For more information, please contact Accessibility Services.

Center for Academic Success: The Center for Academic Success provides services, programs, and opportunities to help all undergraduate students succeed academically. For more information, contact them: 678-839-6280 or cas@westga.edu

University Writing Center: The University Writing Center assists students with all areas of the writing process. For more information, contact them: 678-839-6513 or writing@westga.edu

Academic Honesty:
Plagiarism and cheating will not be tolerated. Students caught cheating will receive a 0 for the assignment and possibly face further disciplinary action. A second occurrence will result in receiving an F for the course in addition to any further action taken by the university.

Changes to the Syllabus
The information in this syllabus may be updated or changed during the course. Changes to the course syllabus will be provided via CourseDen announcement.