Chemistry 1212 (Leslie, Spring 2020)

Co-requisite CHEM 121L

Instructor          Logan Leslie
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All contact via email should be through your University of West Georgia email account. While I will check CourseDen messages, my email is by far the fastest and easiest way to contact me.

Class time          T and Th: 12:30-1:45 PM

                   Modified Mastering Chemistry
                   Modified Mastering Chemistry registration code: leslie14831
                   www.pearsonmastering.com
                   An I>Clicker2 or I>Clicker

Office Hours        Tu: 10:00 am to noon and 1:45-3:45 pm
                   W: 11:00 am – 1:00 pm
                   Th: 4:00-6:00 pm
                   F: 10:00 am - noon

Learning Outcomes

1. Students will be able to apply knowledge of the properties of molecules and interactions between molecules including colligative properties, solubility, and electrochemical properties.

2. Students will be able to apply the concept of equilibrium to a variety of types of substances such as soluble solids, gases, and acids/bases to determine relevant information such as expected concentration and pH.

3. Students will be able to make predictions about the behavior of reactions based on kinetic and thermodynamic information.
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:

- January 30
- February 20
- March 26
- April 23

The final examination will be given on Thursday, April 30 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. This will not be used to replace a grade if it was given to you due to an academic misconduct problem (e.g. copying on the exam).

The final will be the American Chemical Society standardized test which will cover both semesters of general chemistry. A standard 100 point scale will be used. Make-up exams must be arranged ahead of time and must be taken before the next 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 with the exception of possible additional points offered on the exam itself.

**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 Tuesday January 14th you will be expected to have your iclicker with you in class to be able to respond to questions. 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). You will also receive the equivalent of one correct answer for attending the class and answering at least half of the clicker questions (they do not have to be correct).

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. This means that missing one or two days will still allow for a score of 100% for this portion of the grade. If there are extenuating circumstances that will cause you to miss a significant amount of class for an excused reason (as opposed to a single day) you will need to let me know and we will discuss an alternative assignment for you.

**Homework**

There will be required homework assignments given in this course. With the exception of the week of an exam, there will be an assignment made each day that will be due the following Tuesday. Homework will be excepted up to ten days late with 10% being removed for each day late. These assignments will go up an approximately 5:00 pm on days where class is held to give me time to make adjustments to the assignment based on where we got to in class. This homework will be done through Pearson’s Modified Mastering site (link is provided above in the required materials section).

**Chemistry Workshop**

Workshops are an important part of CHEM 1212. 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 11: Liquids, solids, and intermolecular forces
Chapter 13: Solutions
Exam 2:
Chapter 14: Kinetics
Chapter 15: Chemical equilibrium

Exam 3:
Chapter 16: Acids and bases
Chapter 17: Aqueous ionic equilibrium

Exam 4:
Chapter 18: Free energy and thermodynamics
Chapter 19: Electrochemistry

Common Syllabus Information:

Students, please carefully review the information at this link:

https://www.westga.edu/UWG/SyllabusPolicies/

It contains important information pertaining to your rights and responsibilities in this class. Because these statements are updated as federal, state, university, and accreditation standards change, you should review the information each semester. This link contains information about such things as the university honor code and class accommodations related to the Americans with Disabilities Act.

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.