CHEM 1211 - Principles of Chemistry I

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You must email me from your myUWG account or I will not respond.

Text: Chemistry: Structure and Properties, Tro (must include Registration Code for Mastering Chemistry)
pearsonmylabandmastering.com  Course ID: boatright52044

Madra Learning: https://app.madralearning.com/go/westga  support@madralearning.com

You will need to purchase an iClicker from the bookstore and bring it to class every day with batteries.

Grading:  Workshop  10%
          Clicker  15%
          Homework  15%
          Exams  60%

The final will be the American Chemical Society standardized test which will cover the entire semester. A standard 10 point scale will be used. No make-up exams will be given. If you miss an exam for any reason your final exam score will replace that exam. No extra time will be given for exams, so please arrive on time. No extra credit will be offered.

Cheating will not be tolerated. Any infraction will be taken before the disciplinary committee and played out to the fullest extent.

Syllabus Fall 2016:

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<th>Chapter</th>
<th>Title:</th>
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<tr>
<td>1</td>
<td>Atoms Appendices I-III</td>
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<td>2</td>
<td>Measurement, Problem Solving, and the Mole</td>
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<td>3</td>
<td>The Quantum-Mechanical Model of the Atom</td>
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Exam I  Tuesday, August 30

4  Periodic Properties of the Elements
5  Molecules and Compounds
6  Chemical Bonding I
7  Chemical Bonding II (Sections 7.1-7.3)

Exam II  Tuesday, September 27

8  Chemical Reactions and Chemical Quantities
9  Introduction to Solutions and Aqueous Reactions

Exam III  Tuesday, November 1

10  Thermochemistry
11  Gases

Exam IV  Thursday, December 1
Final Exam  Tuesday, December 6, 11 am – 1:00 pm

Learning Outcomes: Students 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.

apply scientific reasoning and methods of inquiry to explain natural phenomena.

apply the scientific method in laboratory activities, collect and analyze scientific data and formulate appropriate conclusions from data analyses and communicate their findings.
How to Study Chemistry

We will be using the “Flipped Classroom” format in our class meeting times. That means that you will introduce yourself to the course material outside of class by reading the textbook and watching PowerPoint lectures that I will post. In addition, there will be online homework due before each class time to ensure you are keeping up with the material. In class time will be used to take your understanding deeper by working problems and discussing the concepts behind the math. After we finish a chapter (the first two chapters will be combined for this) there will be a 20 question quiz that will reveal how well you understand the covered material and where you need to work a little harder to be prepared for the exams.

You should familiarize yourself with the textbook. Read the author’s preface to see what is included in the text and what other resources are available for help. Look at the appendices to see what information is contained there for later use. While reading the chapter, work the in-chapter problems. Only continue reading when you completely understand the problems. Chemistry builds on itself and if you do not understand a topic now it will only make later topics more difficult. In addition, this chemistry course sets the foundation for later chemistry courses, if you do not learn the material now it will make later courses much more difficult.

When you have completed the portion of the chapter covered by lecture proceed to work the online homework problems immediately. These problems are an excellent barometer to determine whether you understand the material. Treat the homework problems as if they are test questions and do not look elsewhere for help. If you can work the problems without looking anywhere else for help then you know and understand the material. If you cannot do the problem without help then you need to stop doing homework and reread the pertinent area of the textbook and lecture notes until you are ready to try the problem again. You will learn more by sticking with a problem to finally solve it then by looking for the solution. Chemistry is best learned by doing, so work as many additional problems as you can.

You must keep up. This course will move quickly and if you are not studying daily then you will find it to be quite difficult. While it will be necessary to memorize some information like equations and formulas, memorization without understanding is useless. You must learn how and when to use equations to be successful. Also, because of the volume of information you will see, you will not find success by “cramming.” If you do not start studying until the week of the test I guarantee you will not be successful. You may also find study groups to be helpful. When you teach and explain topics to your fellow students you will find that you learn those topics even better.

Finally, do not hesitate to use my office hours. These hours are set aside for you, so take full advantage.
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 he/she 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](mailto: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](mailto:writing@westga.edu)

HONOR CODE

At the University of West Georgia, we believe that academic and personal integrity are based upon honesty, trust, fairness, respect, and responsibility. Students at West Georgia assume responsibility for upholding the honor code. West Georgia students pledge to refrain from engaging in acts that do not maintain academic and personal integrity. These include, but are not limited to, plagiarism, cheating, fabrication, aid of academic dishonesty, lying, bribery or threats, and stealing.

The University of West Georgia maintains and monitors a confidential Academic Dishonesty Tracking System. This database collects and reports patterns of repeated student violations across all the Colleges, the Ingram Library, and the School of Nursing. Each incidence of academic dishonesty is subject to review and consideration by the instructor, and is subject to a range of academic penalties including, but not limited to, failing the assignment and/or failing the course. Student conduct sanctions range from verbal warning to suspension or expulsion depending on the magnitude of the offense and/or number of offenses. The incident becomes part of the student’s conduct record at UWG.

Additionally, the student is responsible for safeguarding his/her computer account. The student’s account and network connection are for his/her individual use. A computer account is to be used only by the person to whom it has been issued. The student is responsible for all actions originating through his/her account or network connection. Students must not impersonate others or misrepresent or conceal their identities in electronic messages and actions. For more information on the University of West Georgia Honor Code, please see the [Student Handbook](#).
UWG EMAIL POLICY

University of West Georgia students are provided a MyUWG e-mail account. The University considers this account to be an official means of communication between the University and the student. The purpose of the official use of the student e-mail account is to provide an effective means of communicating important university related information to UWG students in a timely manner. It is the student’s responsibility to check his or her email.

CREDIT HOUR POLICY

The University of West Georgia grants one semester hour of credit for work equivalent to a minimum of one hour (50 minutes) of in-class or other direct faculty instruction AND two hours of student work outside of class per week for approximately fifteen weeks. For each course, the course syllabus will document the amount of in-class (or other direct faculty instruction) and out-of-class work required to earn the credit hour(s) assigned to the course. Out-of-class work will include all forms of credit-bearing activity, including but not limited to assignments, readings, observations, and musical practice. Where available, the university grants academic credit for students who verify via competency-based testing, that they have accomplished the learning outcomes associated with a course that would normally meet the requirements outlined above (e.g. AP credit, CLEP, and departmental exams).