

CHEM 1307 INTRODUCTORY CHEMISTRY

(Previously known as CHEM1407)

Time TR 1:30PM-2:50PM

Location UGLC 106

Instructor: XiuJun James Li, Ph.D.

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Office: CCSB 2.0112

Office hours: TBA

TEXTBOOK AND OTHER STUDY MATERIAL

General, Organic and Biological Chemistry: Structures of Life (UTEP edition 6th) by Timberlake. Additional reference material might be distributed during the semester.

Please note some new teaching technology will be applied in this course: such as online Homework, online video lecturing, and iClicker Reef etc.

Online Homework from *Pearson MyLab Mastering Chemistry* is required. Register @ <http://www.pearson.com/mastering>. Refer to other materials for details. It is important to get an early start on the homework. **Your work will be identified by your student identification number. So be sure it is correct.**

Instructor's course ID: **li13273 (TO BE CONFIRMED BY PUBLISHER)**

To sign in later: <http://www.pearson.com/mastering>

Other references: **Chemical Principles**, by Steven S. Zumdahl.

COURSE PURPOSE

This is the first semester of Introductory Chemistry, an introduction to chemistry for nonmajors and pre-health students. The laboratory is an integral part of the course and should be taken at the same time. Math 3011, Intermediate Algebra, is a prerequisite that may be taken concurrently.

COURSE CONTENT OUTLINE

Chapters 1 - 11 of the text will be covered but not all of the topics will receive the same emphasis, with a focus on the following chapters. After passing this course you should be able to use the concepts of chemical nomenclature, atomic and molecular theory, stoichiometry, gas laws, pH, chemical equilibrium, kinetic theory, oxidation/reduction reactions and nuclear chemistry. You should be able to think analytically and critically in solving fundamental problems. A basic skill in algebra is essential.

- Chapter 2: Chemistry and Measurements
- Chapter 3: Energy and matter
- Chapter 4: Atoms and elements
- Chapter 5: Nuclear chemistry
- Chapter 6: Ionic and Molecular Compounds

- Chapter 7: Chemical reactions and quantities
- Chapter 8: Gases
- Chapter 9: Solutions (**brief, if time available*)
- Chapter 11: Acids and bases (**brief, if time available*)

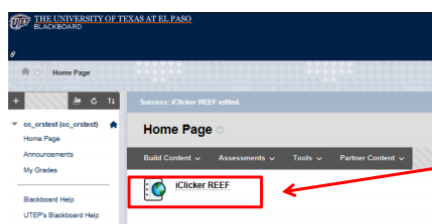
LEARNING OUTCOMES AND ASSESSMENTS

The learning outcomes of this course are to understand these concepts and acquire the skills to use them to solve problems. Your mastery of these outcomes will be assessed by your performance on exams and homework.

EXAMS & Homework

There will be two unit exams and a final exam (Exam 3). **There will be no makeup exams.** **You cannot pass the course without taking the Final Exam.** Of the two scores of the two unit tests, the lowest one will take less percentage in the calculation of your final overall scores(but you cannot drop it.), aiming to improve your final score . You will need a calculator for these exams, preferably one with a logarithm key but no other electronic equipment, including cell phones, iPods or laptops are permitted in the exam. If you have them with you, they must be kept in a bag and turned off. Caps and hats cannot be worn during exams.

Short quizzes and questions will be administered through the **App iClicker Reef** (**Course Name: TBA**) in each class period. Please make sure you have the App available before the school starts. You also need to click the iClicker Reef-association link to complete integration of Blackboard and Sync Grade.



- An iClicker REEF icon will now appear on the Home Page of your course.

Direct your students to use the iClicker REEF-association link.

Students need to sign in to their Blackboard course and use the link you created to sign in to their iClicker REEF account or create a new account if they don't already have one.

- Using the Blackboard link automatically adds your course to the student's account; the student won't have to search for your course to join it.
- Students only need to use the iClicker REEF-association link once to allow you to sync their score. Once the association is made, students may choose to go directly to the iClicker REEF website or use the mobile app to use iClicker REEF.
- Returning students choosing to use the iClicker REEF-association link in Blackboard will be automatically logged into iClicker REEF through single sign-on (SSO) and taken directly to your iClicker REEF course page.

Online homework on Mastering Chemistry will be assigned for each chapter.

Evaluations:

- Homework 18%
- Two unit exam scores (18% & 25%) and quiz score: 50%

- Final Exam (Comprehensive): 27 %
- Attendance: 5%

Breakdown:

100%	-	89%	-	79%	-	70%	-	60%	-	0%
		A		B		C		D		F

Some bonus points (<5%) may be offered in class. There may be a curve but only if the final class average falls much below or above 70%.

Important Dates:

March 5th: Exam 1 (tentative)
 April 3rd: Drop deadline
 April 7th: Exam 2 (Tentative)
 May 7th: Exam 3 (tentative)

CLASSROOM ETIQUETTE

Anything that detracts from the classroom experience should be avoided. Cell phones and beepers must be turned off at the beginning of the period. You may tape the lecture if you ask permission first. Smoking is illegal in university buildings. Eating and drinking is not permitted in class. Tardiness is distracting and is discouraged. Casual coming and going should be avoided. Children should not be brought to the classroom. **Unless there is an emergency, leaving early is permitted only with consent of the instructor which must be obtained before class. Students should not talk to each other while the instructor is lecturing or while other students are asking questions. Cell phones must be off during class.** The Golden Rule is the best guide. If in doubt, check with the instructor.

ELECTRONIC DEVICES

Electronic devices such as cell phones, notepad and laptop computers should not be used during lectures except for participation in class and must not be used during exams except where explicitly permitted.

E-mail correspondence:

The **subject lines** of all emails regarding this course to the instructor should include "**Chem 1407**". Otherwise, your email might not be addressed or become missing.

Academic honesty:

Materials (written or otherwise) submitted to fulfill academic requirements must represent a student's own efforts. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Violations will be taken seriously and will be referred to the Dean of Students Office for possible disciplinary action. Students may be suspended or expelled

from UTEP for such actions.

Absence:

Doctor note could be accepted for the absence of class to avoid absence penalty. But any missing exams, quizzes, and other in-class tests will not be arranged for the student to make up.

MILITARY SERVICE

If you are in the military and are called to service and/or training during the course of the semester, you should inform your professor as soon as possible.

Students with Disabilities

If you have or believe you have a disability, you may wish to self-identify. You can do so by providing documentation to the Office of disabled Student Services located in Union E Room 203. Students who have been designated as disabled must reactivate their standing with the Office of Disabled Student Services on a yearly basis. Failure to report to this office will place a student on the inactive list and nullify benefits received. If you have a condition which may affect your ability to exit safely from the premises in an emergency or which may cause an emergency during class, you are encouraged to discuss this in confidence with the instructor and/or the director of Disabled Student Services. You may call 747-5148 for general information about the Americans with Disabilities Act (ADA).

Syllabus is subject to change. Any changes will be announced in class, or by email, or posted on the course Blackboard site during the semester. Students are solely responsible for getting the most updated information.