



Course	CHEM 1312: General Chemistry II
Professors	Lev D. Gelb
Term	Fall 2010
Meetings	MWF 1:30 pm – 2:20 pm, MSET1.102

Professor's Contact Information

Office Phone	972-883-5644
Office Location	ECS-S 4.607
Email Address	lev.gelb@utdallas.edu
Mailboxes	Chemistry Department Main Office, and outside office door (preferred).
Office Hours	Tues 3:00 to 4:00 pm; Wed 11:00 am to 12:00 pm. Feel free to stop by at other times!
Other Information	Use email address above, I don't read eLearning email.

General Course Information

Prerequisites, Co-requisites, and other restrictions	One year of high school chemistry and one semester of college general chemistry (e.g. CHEM 1311) are assumed. You must also register for CHEM 1014 (exams), and CHEM 1112 (General Chemistry Lab II)
Course Description	A continuation of CHEM 1311 treating solutions; chemical equilibrium, acids and bases, solubility; electrochemistry; organic chemistry; rates of reactions; and environmental, polymer, nuclear, and biochemistry.
Learning Outcomes	<u>Objectives</u> CHEM 1312 is the second of a two-course sequence. The goal of this course is to provide students with a working knowledge of how the basic concepts learned in CHEM 1311 apply to more complex chemical systems. The course focuses on the following: chemical equilibrium; rates of reactions; acid base chemistry, including buffer systems and acid/base titrations; electrochemistry; thermodynamics; nuclear chemistry; and basic organic chemistry. Basic problem solving skills and critical thinking continue to be emphasized in this course. <u>Expected Learning Outcomes</u> Upon successful completion of this course, students will therefore: 1. be able to predict and apply the characteristics and colligative properties of solutions, based on their understanding of intermolecular attractive forces that determine the properties of the states of matter and phase behavior 2. be able to use the basic concept of equilibrium in writing equilibrium constant relationships, determining whether equilibrium has been established, calculating equilibrium concentrations, and predicting the effects of concentration, pressure and temperature changes on equilibrium mixtures (Le Chatelier's Principle) 3. be able to interpret experimental data (in both tabular and graphical form) by appropriately setting up and solving scientific problems using dimensional analysis and with proper attention to scientific units and significant figures 4. be able to apply the concepts of equilibrium to (a) understand common inorganic reactions that occur in aqueous solutions (e.g. acid-base, solubility-precipitation and oxidation/reduction reactions); (b) understand how chemical equilibria depend on ΔH, ΔS and ΔG; and (c) determine standard and non-standard cell potentials and equilibrium constants from cell potential data for oxidation/reduction reactions 5. be able to demonstrate an understanding of the basic concepts of chemical kinetics, how reaction rates and equilibrium properties are related, and how these topics relate to major scientific issues by performing kinetics calculations and evaluating reaction mechanisms
Required Texts & Materials	1. Textbook: <i>Chemistry, 1st Edition</i> (Julia Burdge); McGraw-Hill 2. Course materials located on class site at eLearning: http://elearning.utdallas.edu/ 3. ARIS online assignment system: http://www.mharis.com

Schedule & Academic Calendar

Class Period	Day	Date	Topic	Chapter
1	Fri	Aug 20	Welcome and introduction	13
2	Mon	Aug 23	Solutions: heats of solutions, concentrations, temperature and pressure effects on solubility, vapor pressure, colligative properties: boiling pt. elevation, freezing pt. depression, osmosis	
3	Wed	Aug 25		
4	Fri	Aug 27		
5	Mon	Aug 30		
6	Wed	Sept 1		
7	Fri	Sept 3	Kinetics: factors affecting reaction rates	14
	Mon	Sept 6	Labor Day, no class	
8	Wed	Sept 8	concentration vs. rate, concentration vs. time, reaction rate theories/activation energies, mechanisms; catalysis	
9	Fri	Sept 10		
10	Mon	Sept 13		
11	Wed	Sept 15	Equilibrium: the concept and the equilibrium constant,	15
	Wed	Sept 15	Exam 1 (Chapters 13 and 14)	
12	Fri	Sept 17	equilibrium expressions, applications factors that affect equilibrium	15 (cont.)
13	Mon	Sept 20		
14	Wed	Sept 22		
15	Fri	Sept 24	Acids and bases: Brønsted acids/bases, the pH scale, strong/weak acids and bases, conjugate acid/base pairs, molecular structure and acid strength, acidic/basic salts, Lewis acids and bases	16
16	Mon	Sept 27		
17	Wed	Sept 29		
18	Fri	Oct 1		
19	Mon	Oct 4		
20	Wed	Oct 6		
	Wed	Oct 6	Exam 2 (Chapters 15 and 16)	
21	Fri	Oct 8	Acid/base equilibria and solubility equilibria: common ion effect, buffer solutions, acid/base titrations, solubility calculations, factors affecting solubility	17
22	Mon	Oct 11		
23	Wed	Oct 13		
24	Fri	Oct 15		
25	Mon	Oct 18		
26	Wed	Oct 20		
27	Fri	Oct 22	Entropy, free energy and equilibrium: second and third laws of thermodynamics, Gibbs' free energy, free energy and equilibrium	18
28	Mon	Oct 25		
29	Wed	Oct 27		
30	Fri	Oct 29		
31	Mon	Nov 1		
32	Wed	Nov 3		
	Wed	Nov 3	Electrochemistry:	19
	Wed	Nov 3	Exam 3 (Chapters 17 and 18)	
33	Fri	Nov 5	balancing redox reactions, galvanic cells, cell potentials and reduction potentials, cell potentials and free energy changes, batteries and electrolysis, stoichiometry of electrochemical reactions	19 (cont.)
34	Mon	Nov 8		
35	Wed	Nov 10		
36	Fri	Nov 12		
37	Mon	Nov 15		
38	Wed	Nov 17		
39	Fri	Nov 19	Nuclear chemistry: nuclear reactions, nuclear stability, fission and fusion	20
40	Mon	Nov 22		
41	Wed	Nov 24		
	Fri	Nov 26	Thanksgiving, no class	
42	Mon	Nov 29	Organic chemistry	10
43	Wed	Dec 1		
	Wed	Dec 3	Exam 4 (Chapters 19 and 20)	
44	Fri	Dec 3		10 (cont'd)
45	Mon	Dec 6		
	Tues/Wed	Dec 7-8	Reading Days	
	Fri	Dec 10	Cumulative Final Exam (11:00 AM to 1:45 PM)	

Exam Schedule:	Wed	Sept 15	Exam 1	7:00 to 8:30pm
	Wed	Oct 6	Exam 2	7:00 to 8:30pm
	Wed	Nov 3	Exam 3	7:00 to 8:30pm
	Wed	Dec 3	Exam 4	7:00 to 8:30pm
	FRIDAY	DEC. 10	FINAL EXAM	11:00 AM to 1:45 PM

Course Policies

Grading (credit) Criteria	Course Evaluation: <table border="0"> <tr> <td>(i) Quizzes</td> <td>15%</td> </tr> <tr> <td>(ii) Midterm Exams (4 x 15%)</td> <td>60%</td> </tr> <tr> <td>(iii) Final Exam</td> <td>25%</td> </tr> </table> Our goal in this class is to help you develop an understanding (and appreciation) of how chemistry impacts your everyday lives. Our main focus will be on concepts and not just facts, and our teaching and testing will reflect this. A principle method for learning a concept is by working problems that test your understanding of that concept and how it relates to other concepts you already know. We have designed this course to empower you to succeed in learning chemical concepts. Important components of the course are as follows: 1. Homework assignments: • assigned for each chapter from end-of-chapter exercises in <i>Burdge</i> • large number of problems, selected to cover majority of important concepts • not be collected or graded • all homework assignments for the next section will be posted the day after the previous exam 2. Quizzes (online in ARIS): • one per chapter plus additional "Foundation Concepts" quizzes • we will drop your 2 lowest quiz scores; the others will be averaged together to give your quiz average • <i>there will be no makeup quizzes given (you will receive a "zero" for any quiz you miss)</i> • each quiz will be composed of two parts: a. pre-quiz: -- approx. 5 to 10 questions (similar to homework) -- worth 25% of quiz score -- can take as many times as you want (top score counts) -- can take it anywhere you wish -- can work together, use notes and textbook b. proctored quiz: -- typically 3 to 5 questions -- similar to homework (and pre-quiz questions) -- worth 75% of quiz score -- only take once -- must take independently (no working together, textbook or notes) at the Success Center (Conference Center, CN building) • all quizzes for the next section will be posted the day after the previous exam, and the quizzes will be due (i.e. access closed) on the dates listed below. <i>There are 150+ students in this class, and ALL of you will be required to take the proctored quizzes at the Success Center (~40 computers). Don't wait until the last day before the due date to try to take your quizzes — there will be no excuses accepted for unfinished quizzes</i> • you are required to take the proctored quizzes at the Success Center, and software on those computers track student access and usage to allow us to ensure this. <i>Any attempt by a student to take the proctored quiz at a different location will be considered an act of scholastic dishonesty and will be dealt with appropriately (see Section "Academic Integrity" on a following page).</i> 4. Midterm exams (scantron-based multiple choice): • ALL 4 MIDTERM EXAMS MUST BE TAKEN, at the scheduled time and on the scheduled day • <i>There will be no makeup exams given</i> • The lowest of the 4 exam scores will be automatically replaced by a higher final	(i) Quizzes	15%	(ii) Midterm Exams (4 x 15%)	60%	(iii) Final Exam	25%
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	exam score. If you have an acceptable, documented reason for missing an exam (e.g., documented illness, auto accident, participation in UTD-sponsored event, observance of religious holiday), you will be allowed to replace the missed exam with your score on the final. Otherwise, you will receive a "zero" for that exam; that zero will not be replaced by the final and will be included in the calculation of your final class grade. • You may arrive late for an exam up until the first student finishes and leaves (the only penalty being that you will have proportionally less time to finish the exam). After this grace period you will not be allowed to take the exam and will receive a score of "zero." • questions will focus on concepts and material covered in class, homework, pre-quizzes and quizzes. <u>5. Final exam (scantron-based multiple choice):</u> • comprehensive exam • The final exam must be taken and cannot be replaced by any other grade, so don't miss it • <u>No makeup final will be given. NOTE THE DAY AND TIME OF THE FINAL!</u>																																																			
Quiz Deadlines	Prequizzes and Proctored Quizzes are due at 7:00 pm on the days listed below —after the deadline on those days, the assignments will close and you will no longer be able to work on them.																																																			
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Make-up Exams	There are no make-up exams (see above).																																																			
Extra Credit	There is no extra credit .																																																			
Class Attendance	Your attendance is CRITICAL to your success in this class. Results from Fall 2006 support this statement: students that missed just 4 of the first 21 lectures ended up with D's, F's or withdrew from the course. Bottom line: DO NOT SKIP CLASS.																																																			

ARIS details	What: McGraw-Hill's ARIS (Assessment, Review, and Instruction System) is an electronic homework and course management system that we will be using for online quiz assignments. Where: Go to http://www.mharis.com/ First-time Registration/Create a New Account: • follow the procedure outlined in "ARIS Quickstart Guide.pdf," located on the eLearning course site Enrolling for Course: • follow the procedure outlined in "ARIS Quickstart Guide.pdf," located on the eLearning course site. • The COURSE CODE is: FBA-3A-FB3 • Be sure to enter your university name as it appears for the registrars office and grade book. Failure to do so will result in you not receiving credit for work you do. This is your responsibility.
Regrade Policy	Requests to have 1 or more questions of a prequiz/quiz/exam regraded have to be made within 1 week of receiving the graded assignment. The request should be in the form of an email from your UTD email account to the instructor; the subject line should read "prequiz X regrade", "quiz X regrade" or "exam X regrade", where X is the assignment number; the body of the email should contain your full name, the problem number and an explanation of how the problem was graded incorrectly.
Calculators on Proctored Assignments	Only non-graphing and non-programmable calculators are allowed on proctored quizzes, midterm exams and the final exam. Non-approved calculators will be confiscated by the instructor. <u>Use of a non-approved calculator will be considered an act of scholastic dishonesty and will be dealt with appropriately (see Section "Academic Integrity" below).</u>
Peer Instructional Support	Peer Led Team Learning (PLTL) will not be offered for this class.
Classroom Decorum	Students should conduct themselves in a manner appropriate to a University classroom setting. Any behavior that is disruptive, inconsiderate, or offensive is subject to disciplinary action. Cellular telephones should be silenced during class. Computers may be used in class for the purposes of notetaking or other class-related activities, but should otherwise not be used.
Student Conduct and Discipline	The University of Texas System and The University of Texas at Dallas have rules and regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. General information on student conduct and discipline is contained in the UTD publication, <i>A to Z Guide</i>, which is provided to all registered students each academic year. The University of Texas at Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in the <i>Rules and Regulations, Series 50000, Board of Regents, The University of Texas System</i>, and in Title V, Rules on Student Services and Activities of the university's <i>Handbook of Operating Procedures</i>. Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations (SU 1.602, 972/883-6391) and online at: http://www.utdallas.edu/judicialaffairs/UTDJudicialAffairs-HOPV.html A student at the university neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents' Rules, university regulations, and administrative rules. Students are subject to discipline for violating the standards of conduct whether such conduct takes place on or off campus, or whether civil or criminal penalties are also imposed for such conduct.

Academic Integrity	The faculty expects you to display a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work. Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts. Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the university's policy on plagiarism (see general catalog for details). This course will use the resources of turnitin.com, which searches the web for possible plagiarism and is over 90% effective.
Copyright Notice	The copyright law of the United States (Title 17, United States Code) governs the making of photocopies or other reproductions of copyrighted materials, including music and software. Copying, displaying, reproducing, or distributing copyrighted works may infringe the copyright owner's rights and such infringement is subject to appropriate disciplinary action as well as criminal penalties provide by federal law. Usage of such material is only appropriate when that usage constitutes "fair use" under the Copyright Act. As a UTD student, you are required to follow the institution's copyright policy (Policy Memorandum 84-I.3-46). For more information about the fair use exemption, see: http://www.utsystem.edu/ogc/intellectualproperty/copypol2.htm
Email Use	The University of Texas at Dallas recognizes the value and efficiency of communication between faculty/staff and students through electronic mail. At the same time, email raises some issues concerning security and the identity of each individual in an email exchange. The university encourages all official student email correspondence be sent only to a student's UTD email address and that faculty and staff consider email from students official only if it originates from a UTD student account. This allows the university to maintain a high degree of confidence in the identity of all individual corresponding and the security of the transmitted information. UTD furnishes each student with a free email account that is to be used in all communication with university personnel. The Department of Information Resources at UTD provides a method for students to have their UTD mail forwarded to other accounts. <i>Our policy is to not communicate any details regarding your grade through email. We will only discuss grades and grading in person.</i>
Technical Support	If you experience any problems with your UTD account, you may send an email to: assist@utdallas.edu or call the UTD Computer Helpdesk at 972-883-2911.
Withdrawal	The administration of this institution has set deadlines for withdrawal of any college-level courses. These dates and times are published in that semester's course catalog. Administration procedures must be followed. It is the student's responsibility to handle withdrawal requirements from any class. In other words, the instructor cannot drop or withdraw any student. You must do the proper paperwork to ensure that you will not receive a final grade of "F" if you choose not to attend the class once you are enrolled. <i>Undergraduate last day to withdraw with WP/WF: Mon, October 25</i>
Student Grievance Procedures	Procedures for student grievances are found in Title V, Rules on Student Services and Activities, of the university's <i>Handbook of Operating Procedures</i>. In attempting to resolve any student grievance regarding grades, evaluations, or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor, supervisor, administrator, or committee with whom the grievance originates (hereafter called "the respondent"). Individual faculty members retain primary responsibility for assigning grades and evaluations. If the matter cannot be resolved at that level, the grievance must be submitted in writing to the respondent with a copy of the respondent's School Dean. If the matter is not resolved by the written response provided by the respondent, the student may submit a written appeal to the School Dean. If the grievance is not resolved by the School Dean's decision, the student may make a written appeal to the Dean of Graduate

	or Undergraduate Education, and the dean will appoint and convene an Academic Appeals Panel. The decision of the Academic Appeals Panel is final. The results of the academic appeals process will be distributed to all involved parties. Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations.
Incomplete Grades	As per university policy, incomplete grades will be granted only for work unavoidably missed at the semester's end and only if 70% of the course work has been completed. An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent long semester. If the required work to complete the course and to remove the incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of F.
Disability Services	The goal of Disability Services is to provide students with disabilities educational opportunities equal to those of their non-disabled peers. Disability Services is located in room 1.610 in the Student Union. Office hours are Monday and Thursday, 8:30 a.m. to 6:30 p.m.; Tuesday and Wednesday, 8:30 a.m. to 7:30 p.m.; and Friday, 8:30 a.m. to 5:30 p.m. The contact information for the Office of Disability Services is: The University of Texas at Dallas, SU 22 PO Box 830688 Richardson, Texas 75083-0688 (972) 883-2098 (voice or TTY) disabilityservice@utdallas.edu If you anticipate issues related to the format or requirements of this course, please meet with the Coordinator of Disability Services. The Coordinator is available to discuss ways to ensure your full participation in the course. If you determine that formal, disability-related accommodations are necessary, it is very important that you be registered with Disability Services to notify them of your eligibility for reasonable accommodations. Disability Services can then plan how best to coordinate your accommodations. <i>It is the student's responsibility to notify his or her professors of the need for such an accommodation.</i> Disability Services provides students with letters to present to faculty members to verify that the student has a disability and needs accommodations. <i>Individuals requiring special accommodation should contact the professor ASAP after class or during office hours.</i>
Religious Holy Days	The University of Texas at Dallas will excuse a student from class or other required activities for the travel to and observance of a religious holy day for a religion whose places of worship are exempt from property tax under Section 11.20, Tax Code, Texas Code Annotated. The student is encouraged to notify the instructor or activity sponsor as soon as possible regarding the absence, in advance of the assignment. The student, so excused, will be allowed to take the exam or complete the assignment within a reasonable time after the absence: a period equal to the length of the absence, up to a maximum of one week. A student who notifies the instructor and completes any missed exam or assignment may not be penalized for the absence. A student who fails to complete the exam or assignment within the prescribed period may receive a failing grade for that exam or assignment. If a student or an instructor disagrees about the nature of the absence [i.e., for the purpose of observing a religious holy day] or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the chief executive officer of the institution, or his or her designee. The chief executive officer or designee must take into account the legislative intent of TEC 51.911(b), and the student and instructor will abide by the decision of the chief executive officer or designee.

These descriptions and schedules are subject to change at the discretion of the Professor.