

**CHE 1003
Fall 2010**

GENERAL CHEMISTRY FOR ALLIED HEALTH SCIENCES

Introduction to atomic structure, chemical bonding, stoichiometry, states of matter, inorganic chemical reactions, and acids and bases. For majors in occupational therapy, prenursing, and dental hygiene. May not be applied to a major in chemistry, biology, or clinical laboratory sciences. Concurrent enrollment in CHE 1011 is recommended.

MEETING TIMES: M, W, F 9:00-9:50 A.M., SB 2.03.08

INSTRUCTOR: Susan Thomas, Ph.D.

OFFICE HOURS: M and W, NOON-2:00pm BSE 1.338 (458-7051)
Email: susan.thomas@utsa.edu

REQUIRED TEXTBOOK: Bettelheim, Brown, Campbell, and Farrell, Introduction to General, Organic and Biochemistry, Thompson, 2006 (ninth edition)
And OWL access (On line Web-Based Learning)

This Syllabus is provided for informational purposes regarding the anticipated course content and schedule of this course. It is based upon the most recent information available on the date of its issuance and is as accurate and complete as possible. I reserve the right to make any changes I deem necessary and/or appropriate. I will make my best efforts to communicate any changes in the syllabus in a timely manner. Students are responsible for being aware of these changes.

EXTRA MATERIAL: There will be a Blackboard site available to the students enrolled in this course. Any changes in the syllabus or any announcements concerning this course will be made available on this site. It is the student's responsibility to obtain handouts, notes and any other information in the case of an absence.

Not all material will be posted on or Blackboard- examples on the chalkboard or special cases that arise from student questions during the lectures will not be posted.

In addition, one week after each exam, all the lectures leading up to that exam will be removed from the Blackboard site in order to conserve space. They will not be posted again during the semester.

THE OBVIOUS: No cell phones in class- turn them off please. No cheating- this includes homework. Please be courteous to your fellow students and do not come late or leave early.

Please use your class time to ask questions. If you do not understand something you are not alone. Ask about homework problems, class problems, etc.....I am also available in my office hours for any question- PLEASE do not stay confused approach me at any time and I will attempt to help you.

It is the student's responsibility to be on time for lectures and exams. No extra time will be given to students that come in late for exams or in-lecture quizzes. **Students must present their UTSA ID (or any picture ID) when handing in their exams.**

HOMEWORK: Homework is an important part of this course- it is worth 10% of your grade and thus you cannot receive an A without submitting your homework. You will submit your homework electronically through OWL. No partial credit is awarded on homework problems. NO LATE HOMEWORK IS ACCEPTED.

It is imperative that you work through as many problems as possible. Problems appearing on the exams will be similar to ones worked out in class as examples, on your homework, and appearing in the text book.

EXAMS: There will be three exams and a comprehensive final. Each exam may contain multiple choice, matching and work/essay problems.

Missed exams or your lowest test grade will be replaced by the corresponding section on the final exam if your grade for that section is higher. For example: Student M. Green had the following grades in his exams: 70, 80 and 55. On the final exam, M. Green scored 77, 79 and 80 in each section, respectively. M. Green will have the 55 of his third partial exam replaced by the 80 he/she made on the final exam for that specific section and his/her average will be calculated based on the weights given below (see section on Grading). Only one of the partial exam grades will be replaced.

No make-up exams will be given under any circumstance (including sickness, death in the family, etc.). EXCEPT UNIVERSITY APPROVED ABSENCES!! (It is always good to notify me if you are going to miss an exam, or if you have missed the exam.)

There will be NO curve given during the semester.

Exams are not discussed during the lecture period. Students have one week from the date the exam is returned to submit questions about their grade and this should be done during the instructor's office hours.

The exams will consist mainly, but not solely, of multiple choice questions to be answered using **Scantron sheets (882E) provided by the student**. Most questions will be similar to the exercises worked during lectures, homework, or problems at the end of each chapter in your textbook. However, students should expect some questions that are considerably different as well.

PROGRAMABLE CALCULATORS WILL NOT BE PERMITTED!

NO MAKE UP EXAMS WILL BE GIVEN

EXTRA CREDIT: None will be offered or accepted. There is no extra credit available.

FINAL EXAM:

The date of the final exam **CANNOT** change.

Tues, Dec 14 7:30 A.M.- 10:00 A.M.

You cannot miss the final! In case of a serious emergency, notify the instructor (or the Chemistry department) as soon as possible.

Exam Schedule

Exam I	Monday, September 20	Chapters 1 and 2 and 4.1
Exam II	Monday, October 25	Chapters 4, 5 and 1.8-1.9
Exam III	Wednesday, December 1	Chapters 6, 7, 8 and 9
Final Exam	Tuesday, Dec 14 (7:30AM – 10:00AM)	Comprehensive (chapters 1-9), mandatory (You must take the final exam to achieve a passing grade) (Can't be rescheduled)

Grading

3 exams @ 100 points each:	300 points (60%)
Comprehensive Final:	150 points (30%)
Homework/Quizzes:	50 points (10%)
Total:	500 points (100%)

A standard curve will be followed in this course (*see #5 under General Policies*).

100 – 90	A
89 – 80	B
79 – 70	C
69 – 60	D
below 59	F

NO MAKE UP EXAMS WILL BE GIVEN

Here is a tentative schedule for the semester:

<u>List of Topics</u>	<u>Chapter</u>
8/25 Intro to Chemistry in our lives	2.1-2.2, 1.6
8/27 Measurements	1.3-1.5
8/30 Measurements	1.5 & 1.7
9/1 Measurements	1.7
9/3 Atoms	2.3
9/6 <u>HOLIDAY!!</u>	
9/8 atomic weight and mass	2.4
9/10 tour of the periodic table	2.5
9/13 electron configuration	2.5 – 2.8
9/15 electron configuration	2.7 – 2.8
9/17 electron configuration	2.7 – 2.8 & 4.1

EXAM I (9/20) (Monday)

9/22 octet rule and ions	4.1 – 4.3
9/24 ionic vs covalent bonds/naming	4.4 - 4.8
9/27 ionic vs covalent bonds/naming	4.4 -4.8
9/29 drawing Lewis structures	4.9
10/1 predicting structure shapes	4.10
10/4 the mole, what is it?	5.1 to 5.3
10/6 conversion factors	5.3
10/8 balancing chem. Equations predicting products	5.4-5.5
10/11 stoichiometry	5.5
10/13 stoichiometry	5.5
10/15 stoichiometry	5.5
10/18 oxidation/reduction prob.	5.7

10/20 heat of reactions 5.8 & 1.8- 1.9
10/22 reaction rates 8.1- 8.4

EXAM II (10/25) (Monday)

10/27 equilibrium 8.5- 8.6
10/29 Le Chatelier's Principle 8.7-8.8 HAPPY HALLOWEEN

11/1 define acid and base 5.6 and 9.1-9.3
11/3 equilibrium 9.4- 9.5
11/5 properties of acid/base 9.6

11/8 pH vs. pOH 9.7 – 9.8
11/10 titrations and buffers 9.9- 9.10
11/12 more buffers 9.11-9.12

11/15 solutions 7.1- 7.4
11/17 units for solutions 7.5
11/19 dilutions 7.5

11/22 solutions 7.6- 7.8
11/24 properties of gases 6.1- 6.5

THANKSGIVING HOLIDAY 11/25-11/28

11/29 Kinetic molecular theory 6.6- 6.10

EXAM III (12/1) (Wednesday)

12/3 review

12/14 FINAL

NO MAKE UP EXAMS WILL BE GIVEN

SOME HELPFUL SUGGESTIONS

- **This course is fast paced.** We have to cover practically all the topics included in the first half of the textbook. The following tips may help you keep up with it.
- Review your math! Part of the material will involve (simple) calculations!
- Read each chapter before it is discussed in class. This way new concepts and terminology will look a little more familiar.
- **Read the material to be discussed before coming to class.** Focus on the things you were not able to understand from your reading and ask questions to your instructor.
- **Chemistry is learned by doing**, not only by reading and listening. Plan to work some of the end of the chapter problems to test your understanding. The instructor might make things seem easy to solve but you will not know it until you try it! Do as many problems as possible. Reviewing and studying already solved problems is not enough and may give you the false impression that you know the material while you do not.
- Review and study the material as it is being introduced to you. Consider that you will have to devote several hours per week to this purpose. Do not leave your studying for the day or even the week before a test. You should plan to give this course at least 5 hours of studying (besides lecture times) per week. **DO NOT**

CRAM THEM ALL IN A 5 HOUR BLOCK! It is more effective to study 1 – 1.5 hours daily than 5 hours on a single day. Give yourself some time to learn!

- The material builds up on itself. Be sure to understand one concept before you move on to the next. Do not leave everything for the days before the exam!
- Some of the material in this course relies on memorizing facts and definitions. However, emphasis will be placed on understanding and applying those facts, not on spitting them back on an exam.
- **ASK FOR HELP AS SOON AS YOU NEED IT! DO NOT WAIT UNTIL YOU ARE COMPLETELY LOST!**
- **Your instructors are here to help you. If you have questions and are too shy to ask them during lectures, come to office hours.**

OWL HOMEWORK!!

Dear Students,

We will be using OWL this Fall. You will need to get OWL access as part of the course to complete your electronic homework. Please choose the scenario below that applies to you and follow the directions to gain access.

Scenario 1: If you used OWL last semester and purchased a 2-Semester (12-Month) Access Code, you still have access. Simply log in at <http://cengage.com/owl> and use the Add/Switch link to put yourself into the correct class section. If you have forgotten your login information, use the Login Help on the login page to have it resent to you.

Scenario 2: If you used OWL last semester and purchased a 1-Semester (6-Month) Access Code, you will be running out of access soon. Go to <http://academic.cengage.com/owl/partners/thomson/epinThomson.html> and click the Purchase Access Code link next to the type of access you want—either 1-semester or 2-semester for the appropriate textbook. You will receive your Instant Access Code by email. (You can also visit www.ichapters.com and use the My Stuff link at the upper right corner to retrieve your Access Code.)

After you have your Access Code, please follow these steps to register it and extend your OWL access:

1. Go to <http://academic.cengage.com/owl> and choose the type of textbook you use in the red **Log In or Register Here** box.
2. Click your textbook name.
3. Choose your school.
4. Click the blue arrow under Student Registration. Choose your section.
5. Complete the form. Be sure to enter the user name, login, and password that matched your previous OWL registration and your newly purchased code in the Access Code space. ****It is very important that you do not create a new login name and password. To extend your OWL access, you must use your previous login name and password. Use the link on the login page to have them sent to you if you have forgotten.****
6. Confirm that your information matches the information on the screen. If no match is found or if the information shown matches a different student, go back to the login page for your school and click Email My Login/Password. Use the Login and Password that are sent to you to register.
7. Press Continue.

Scenario 3: If you are using OWL for the first time for this course, please purchase a new Access Code using one of these three options:

1. Purchase an Instant Access Code online. Go to <http://academic.cengage.com/owl/partners/thomson/epinThomson.html> and click the Purchase Access Code link next to the type of access you want—either 1-semester or 2-semester for the appropriate textbook. You will receive your Access Code by email. (You can also log onto <http://www.ichapters.com> and use the My Stuff link at the upper right corner to retrieve the Access Code you purchased.)
2. If you buy a new textbook, your OWL Access Code will come bundled at a reduced price with the textbook.
3. Purchase an OWL Access Code from your college's bookstore if they are available.

After you have your Access Code, please register it by following these steps:

1. Go to <http://academic.cengage.com/owl> and choose the type of textbook you use in the red **Log In or Register Here** box.

2. Click your textbook name.
3. Choose your school.
4. Click the blue arrow under Student Registration. Choose your section.
5. Complete the Registration Form.

Information on the QEP for Course Syllabi

The Quality Enhancement Plan (QEP) is a course of action designed to enhance student learning and is a required component of the accreditation process conducted by the Southern Association of Colleges and Schools (SACS).

The UTSA QEP *Quantitative Scholarship: From Literacy to Mastery* provides you with the skills needed to evaluate and interpret data, understand risks and benefits, and make informed decisions in your personal and professional lives. The plan focuses on integrating quantitative reasoning and communication skills in **existing** courses across the undergraduate curriculum.

All UTSA students, faculty, and staff are encouraged to learn more about the QEP by visiting the website www.utsa.edu/qep