

CHM 101 - GENERAL CHEMISTRY - PASTORE 124
SYLLABUS - FALL 2014

Instructor: Dr. Silvana C. Ngo
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Office hours: T Th 3:30 - 5:00 PM or by appt.

Class Meetings:
Section 3: T Th 11:00 AM - 12:15 PM
Section 4: T Th 2:00 - 3:15 PM

GENERAL INFORMATION FOR STUDENTS

This sheet contains information about the organization of CHM 101 for this semester. It should be carefully read and retained, together with the course schedule, for future reference by each student taking the course.

Learning Objectives.

CHM 101 covers fundamental chemical concepts and principles. Topics include states of matter, stoichiometry, reactivity, atomic structure, thermochemistry, bonding, molecular structure, and solutions. Students should acquire general knowledge of the scientific facts and laws which have been developed from chemists' observations of the natural world and understand the theories and models that chemists employ to explain these natural phenomena. Students should also gain an appreciation of the quantitative nature of chemistry and develop the ability to apply the principles they have learned to mathematical solution of chemical problems.

Books/Resources.

Required: General Chemistry: The Essential Concepts, 7th ed., by Raymond Chang; Chapters 1-13 (skip ch. 11)
Online access to Connect (Chang 7e)

Strongly recommended: Student solutions manual (to accompany General Chemistry by Chang 7th ed.)

A copy of the textbook and the solutions manual are available through the library Reserves for 2-hour use. You will need your ID to have them released to you. Ask for these items at the front desk.

Course Site.

Information for the course is posted in Sakai (<https://sakai.uri.edu/portal>). Be sure to check Sakai regularly throughout the semester.

Grading Policies.

A student's course grade will be calculated as follows:

Exams (Average of 4 exams)	68 %
Final Exam	18 %
Assignments:	
Connect – HW (best 12 of 13)	7 %
Connect – LS (best 11 of 12)	7 %
Total	100 %

Anyone who has the following overall average is guaranteed *at least* the grade shown: 95 = A; 90 = A-; 78 = B-; 65 = C-; 55 = D.

A student's grade is earned by demonstrating mastery/proficiency of the course material as evinced by the quality of the student's performance in exams and assignments. It is *not* open to negotiation nor dictated by what's needed to progress in the student's chosen program of study. **Note:** You need a C- to move on to any other chemistry course in our department!

No make-up exams will be given. The final exam score will replace the grade of any one of the four lecture exams that is missed OR lower than the final exam score. The purpose of replacing a missed lecture exam with the final exam score is to eliminate the need for make-up.

Assignments will be administered through Connect and will count for 14 % of your final score. Information for registering for Connect is given at the end of this file.

Exam Format and Rules.

Exams will be a mix of multiple choice and short answer questions. All work must be shown to get credit. Each exam may require you to use techniques and concepts learned in previous chapters, so all exams are cumulative. The final exam will have the same format as the other exams and will be 1.5 to twice the length of the usual exams.

Students must attend all examinations in the section they are registered in. You will be assigned a seat in Pastore 124 for taking all exams. You will receive a zero for a grade if you are not in your assigned seat for the exam. On exam days, wait outside the classroom until you're instructed to enter. Things to bring to each exam: calculator, pen (exams must be written in ink), and your URI ID. No other form of identification will be accepted. Cell phone calculators or any device with internet access capability are NOT allowed. Once you have started the exam, you are not allowed to leave the room until you are finished.

Alternate testing accommodations will be provided for students with a documented disability. As part of this process, please contact the Disability Services for Students Office at 330 Memorial Union, 874-2098 (<http://www.uri.edu/disability/dss/>) as early in the course as possible. You must provide your approved documentation to me at the latest, one full week before the exam.

Exam answers and scores will be posted in Sakai. I will put an announcement in Sakai for when you can pick up your exams. When you pick up your exams, you have to look through it in my office. If you think you need a question re-graded, you have to tell me then and there. Note that any request for re-grading means the entire exam will be re-graded. No request for re-grading will be accepted once you have left my office with your exam.

Assignments.

Assignments will be administered through Connect. We will be using Connect for several assignment types: PLA (Pre-Lecture Activity), LS (Learn Smart), and HW (Homework). Assignment due dates are clearly indicated in Connect and *no extensions* will be given. Please do not ask for any.

- ***PLA (Pre-Lecture Activity)***
There will be one PLA, made up of 10 questions, per chapter that we cover. Prior to each class, read 3-4 sections of the scheduled chapter and complete the PLA. This will help you to better understand the concepts that will be discussed at the next class meeting as well as enable us to strategically use most of our class time to help you *understand* new concepts through problem solving. The PLA will be counted as extra credit with a maximum value of 20 points (based on 100%) which will be added to the sum of your 4 exams before averaging at the end of the semester.
- ***LS (Learn Smart)***
LS is a computer adaptive learning tool wherein questions are presented until mastery is achieved. There will be one LS assignment (with 40-50 questions) for each chapter we cover.
- ***HW (Homework)***
HW, made up of 20 end-of-chapter questions, are due after we finish a chapter. These will help you further practice new skills as well as serve as a self-test of how you are progressing.

The assignments are designed to be interactive and you will have immediate feedback regarding each question. You are given unlimited chances to submit the PLA and HW with only the best score being counted. Both the PLA and HW consist of a number of questions selected at random from a larger pool so questions may be different after each

submission. This means that even *after* you've completed the assignment (and received credit for your work), you can re-open the assignment and answer a *different* set of questions to get additional skill practice. You may re-visit and re-work completed assignments prior to exams to review key concepts and practice the various types of problems.

The Connect assignments are long so do not wait until the last minute to start on them. You are allowed multiple submissions so work on them immediately. Since the assignments are considered as study tools, you may work on them with your study groups. However, ensure that you are gaining understanding of the material instead of relying on others or just clicking the answers until you get the correct one. Gaming the system will be unproductive in the long run. After the due date, you will still be able to use the assignments but for practice only (no credit).

The Academic Enhancement Center (AEC).

This is a challenging course. Success requires that you keep pace with the work, understand course concepts, and study effectively. The Academic Enhancement Center is a great place to do this. At the AEC you can work alone or in groups, and tutors and professional learning specialists are available to help you to learn, manage your time and work, and study well. Information regarding the center is available on the 4th floor of Roosevelt Hall, 874-2367 (<http://www.uri.edu/aec/>).

Academic Integrity.

The university policy on academic honesty will be enforced. Any incidence of academic dishonesty, as defined by the policies outlined in the URI's Student Handbook, will result in either one or all of the following: a grade of zero for the exam, failure for the course, formal notification to the Dean of Students. While students are encouraged to study together, exams and quizzes must represent the work of the individual student. The following are examples of academic dishonesty:

- Unauthorized possession or access to exams
- Unauthorized communication during exams
- Unauthorized use of another's work or preparing work for another student
- Taking an exam for another student
- Altering or attempting to alter grades
- The use of notes or electronic devices to gain an unauthorized advantage during exams
- Facilitating or aiding another's academic dishonesty

Email.

Email communications will be done through your my.uri.edu email so make sure you check it regularly. Do note that I receive a substantial number of emails daily. I am teaching two sections of this course this semester, so to ensure that your email will be answered, please remember to: include your *full name* and *section number*; indicate the topic briefly on the subject line; write a clear and complete message.

Connect Registration.

The bookstore offers a customized package version of General Chemistry: The Essential Concepts 7th ed. with the access code for Connect for Chang 7e. You will need an access code to get into the homework site. The Connect access code is good for 2 years. If you already have an account from a previous semester for the same version (7e), you will be able to register without buying another code.

- To register and/or purchase access to Connect, you will need to go to the *specific* Connect Course URL for your section,
Section 3: <http://connect.mheducation.com/class/s-ngo-3-carbon>
Section 4: <http://connect.mheducation.com/class/s-ngo-4-neon>
- Click on the "Register Now" button.
- Put in your email address. If you have registered with McGraw-Hill previously they will recognize you in their system so you can use your old password that you had previously set up with them. If you have the access code you can enter this on the left hand side to redeem this. This can only be redeemed once and must be the code for

the required book we are using. If you don't have an access code, you can purchase it online through the button on the right. McGraw-Hill also offers a *free* 2-week trial period if you are waiting for funds. If you do sign up for the free trial, be sure to purchase an access code before the trial period expires.

- If you have any questions regarding CONNECT please direct these to McGraw-Hill tech support (www.mhhe.com/support) for helpful FAQ's, or by calling 800-331-5094. You will be responsible for following up with them to make sure that you complete the required assignment on time. Other helpful site: http://mpss.mhhe.com/student_connect_resources.php

Tips for Success.

I want each of you to succeed! This course moves extremely quickly as a large amount of material will need to be covered. In order to do well in this course, a significant amount of effort and time input is necessary. Here are some tips to help you in this course:

- *Come to class.* There is a very good correlation between class attendance and how well you will do in this class. While there may be some students who do well without attending class, majority of students who struggle most rarely come to class. Note that electronic devices (e.g. cell phones, laptops, tablets) are not allowed in class.
- *Be prepared.* Read the assigned reading material and start on the Connect assignments before each class. This will help you to better understand what is covered in class. Lecture slides will be posted in Sakai so you do not have to copy everything. Bring a printout of the slides to class, listen, take notes, and pay attention to how problems are solved. Do not fall behind in the reading and the problem solving.
- *Reinforce.* After each lecture, go over your notes and reread the chapter until you understand the material. As a general rule, students should be studying 2-3 hours for each hour of class time.
- *Practice, Practice, Practice!* The only way to master the material is to do problems. Your goal should be to understand how the problems are done. Redo the problems presented in the lecture until you are able to do them in one try. Do as many of the problems at the end of the chapter until you feel comfortable with the material. Do not just look at the solutions and assume that you know how to do them. You have to get to the point where you are able to do the problems on your own.
- *Get help early.* Make sure you understand the material as we move through the course. If you are stuck, ask for help immediately by coming to office hours, or going to the help sessions offered. Do not just shrug it off hoping the next one will be easier. Material in each chapter will be used in subsequent chapters, so if you fall behind in the first few weeks, it's nearly impossible to catch up again. Office hours are posted on the first page of this Syllabus.

Lecture/Exam Schedule

The breakdown for each chapter will depend on the pace of the class. You are responsible for all of the material in each chapter unless announced differently and for material presented during lectures, including those not in the text.

Week #	Tuesday	Thursday
1		9/4 Syllabus, Ch 1
2	9/9 Ch 1	9/11 Ch 1, 2
3	9/16 Ch 2, 3	9/18 Ch 3
4	9/23 Ch 3	9/25 <i>Exam 1 (Ch 1 – 3)</i>
5	9/30 Ch 4	10/2 Ch 4
6	10/7 Ch 4, 5	10/9 Ch 5
7	10/14 Ch 6	10/16 Ch 6, 7
8	10/21 <i>Exam 2 (Ch 4 – 6)</i>	10/23 Ch 7
9	10/28 Ch 8	10/30 Ch 8, 9
10	11/4 Ch 9	11/6 Ch 9
11	11/12 (Wednesday!!!) Ch 10	11/13 Ch 10
12	11/18 <i>Exam 3 (Ch 7 – 10)</i>	11/20 Ch 12
13	11/25 Ch 12, 13	11/27 No Class (Thanksgiving)
14	12/2 Ch 13	12/4 <i>Exam 4 (Ch 12 – 13)</i>
15	12/9 Reading Day	12/11 <i>Sect 4: Final Exam, 11:30 AM</i> <i>Sect 3: date and time TBA</i>