CHM 101 - GENERAL CHEMISTRY I
SYLLABUS - FALL 2015

Instructor: Dr. Silvana C. Ngo
Office: Pastore 319A
Email: snigo@chm.uri.edu
Office hours: T Th 12:30 – 2:30 PM or by appt.

Class Meetings: Pastore 124
Section 3: T Th 11:00 AM – 12:15 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:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Exams (Average of 4 exams)</td>
<td>68%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>18%</td>
</tr>
<tr>
<td>Assignments: (Connect)</td>
<td>14%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
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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 exams.

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.

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.

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. Information for registering for Connect is given in Sakai.

Disability Accommodations.

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.

The Academic Enhancement Center (AEC).

This is a challenging course. To help students in this course, the AEC provides Supplemental Instruction (SI) through special learning sessions. The SI leader for this course is Kwesi Lillard. Information on SI schedule will be updated in Sakai. The AEC also provides walk-in services for students. 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. While students are encouraged to study together, exams 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 different courses this semester, so to ensure that your email will be answered, please remember to: include your full name and course code; indicate the topic briefly on the subject line; write a clear and complete message.

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. Note that electronic devices (e.g. cell phones, laptops, tablets) are not allowed in class.
- **Be prepared.** Read the assigned reading material and start working on the in-chapter examples in the text and those posted on the slides 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 reading and problems solving, it will be very difficult to catch up again.
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.

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<th>Week #</th>
<th>Tuesday</th>
<th>Thursday</th>
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<tr>
<td>1</td>
<td>9/10 Syllabus, Ch 1</td>
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<td>9/15 Ch 1</td>
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<td>10/1 Exam 1 (Ch 1 – 3)</td>
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<td>8</td>
<td>10/27 Exam 2 (Ch 4 – 6)</td>
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<td>11/3 Ch 8</td>
<td>11/5 Ch 8, 9</td>
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<td>10</td>
<td>11/10 Ch 9</td>
<td>11/12 Ch 9</td>
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<td>11/17 Ch 10</td>
<td>11/19 Ch 10</td>
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<td>12</td>
<td>11/24 Exam 3 (Ch 7 – 10)</td>
<td>11/26 No Class (Thanksgiving break)</td>
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<td>13</td>
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<td>14</td>
<td>12/8 Ch 13</td>
<td>12/10 Exam 4 (Ch 12 – 13)</td>
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<td>15</td>
<td>12/17 (Pastore 124) Final Exam, 8:00 – 11:00 AM</td>
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