CHM 112 - GENERAL CHEMISTRY II
SYLLABUS – SPRING 2021

Instructor: Dr. Silvana C. Ngo
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Office hours: T 10 – 11 AM; Th 6 – 7 PM
(via WebEx; appointment only; sign up in Starfish)

Class Meetings: (online synchronous via Zoom)
CHM 112-1: MWF 10:00 – 10:50 AM

GENERAL INFORMATION FOR STUDENTS

This sheet contains information about the organization of CHM 112 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 112 is the second course in a two-course sequence of General Chemistry. This course will cover elementary principles of solution formation, chemical equilibrium, thermodynamics, kinetics, equilibrium systems (acid/base, solubility), oxidation reduction and electrochemistry. 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.
Prerequisite: CHM 101 with a grade of C- or better

Class Meetings:

Class meetings are MWF 10:00 – 10:50 AM. Exams are scheduled in Brightspace on Monday class times. Required Group Work activities (1 per chapter) are scheduled via Zoom on Fridays. Optional study/help Zoom sessions will be held on Wednesdays during which students will be able to ask questions in real time about course material. The format of these sessions may vary throughout the semester depending on evolving student needs. To make these sessions more effective, make sure you have read the book, watched the lecture videos, worked on the examples in the lecture slides and attempted the DIYs beforehand.

Resources/Required Course Materials.

- Textbook: Chemistry: Atoms First, 4th ed. by Burdge/Overby; Chapters 13-19
- Brightspace: Course materials (lecture videos, lecture slides, study guides, grades) will be posted in Brightspace (https://web.uri.edu/brightspace/). Be sure to check Brightspace regularly throughout the course. Print out the lecture slides and use them to take notes when watching the lecture videos.
- Connect: McGraw Hill's Connect will be used for 2 types of assignments (homework and Smartbook).
- Calculator: a scientific calculator will be needed for exams, group work, and assignments

Grading Policies.

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

Exams (average of 6 exams)	76 %
Final Exam (replaces lowest exam)	
Assignments:	
HW (Connect + Group Work)	12 %
SB (Connect)	12 %
Total	100 %

Course grades will be assigned according to the scale shown:
>90 = A-/A 80 – 89.9 = B-/B/B+ 65 – 79.9 = C-/C/C+ 58 – 64.9 = D/D+ <58 = F

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.

Exam Format and Rules.

Exams will be given in Brightspace during our class times (10:00 – 10:50 AM) on the dates indicated (see schedule below). Each exam may require you to use information and concepts learned in previous chapters, so all exams are cumulative. Questions are in the form of mixed multiple choice and short answer questions. Use of textbook and notes is permitted during an exam; however, attempting to look up information online or receiving assistance from another individual is considered as academic dishonesty and not permitted.

To give students multiple opportunities to demonstrate their mastery of the material, we will have 6 exams. The final exam score will replace the grade of any one of the 6 exams that is missed OR lower. The purpose of this policy is to eliminate the need for make-up exams. This also means you can opt out of the final exam if you are satisfied with your grade already.

Any questions regarding the grading must be brought to my attention within 48 hours of the scores being posted. No changes in any grades will be made after that point. Note that any request for re-grading means the entire exam will be re-graded.

Assignments and Group Work.

Assignments will be administered through Connect. Information on how to register for Connect is given in Brightspace. We will be using Connect for two types of assignments: HW (Homework), and SB (Smartbook). Assignment due dates are indicated in the schedule below as well as in Connect.

HW (Homework) - 12 %
Due dates for the HW are indicated in the schedule below and in Connect. You are given unlimited chances to submit the HW with only the best score being counted. Late HW will be accepted with a 2% credit loss per day. This is done automatically in Connect and requests for extensions are not required.

SB (Smartbook) - 12 %
Due dates for SB are indicated in the schedule below and in Connect. Extensions for SB must be requested via email or Connect will only consider the work done before the due date.

The Connect assignments are long so do not wait until the last minute to start on them. Ideally, you should be working on them concurrently with the lecture schedule. 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. Note that while most of the HW assignments are due on exam days for those chapters, I would advise you to do them before the exams.

Group Work (GW) activities are scheduled via Zoom on the class day (see schedule below) before a scheduled exam and serve as a review. These are primarily participatory. Average of 6 of the 7 GW (1 per chapter) will count as one HW assignment.

Disability Accommodations.

Accommodations for students with disabilities are still in place. Appointments with your case manager can be set up in Starfish for virtual meetings in Google Meet. More information is available at (http://www.uri.edu/disability/dss/).

Help Sources. (In addition to Dr. Ngo's office hours)

- Chemistry TAs. Lab TAs for CHM 114 will hold office hours in Zoom. A link to the TA schedule will be posted once it is finalized.
- AEC (Academic Enhancement Center). Weekly tutoring groups will be done in WebEx. Additional information is available at (https://web.uri.edu/aec/).

Academic Integrity.

The university policy on academic honesty will be strictly 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.

- 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.

All email communications will be done through your URI 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 concisely on the subject line; write a clear and complete message.

Exam Schedule

Date	Day	Exam
2/8	M	E 13 (Ch 13)
2/22	M	E 14 (Ch 14)
3/15	M	E 15/16 (Ch 15 & 16)
3/29	M	E 17 (Ch 17)

Date	Day	Exam
4/12	M	E 18 (Ch 18)
4/26	M	E 19 (Ch 19)
5/7	F	Cumulative Final

Connect Assignment/Group Work/Exam Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
February	2/1 HW-Intro				2/5 SB 13 GW 13
	2/8 HW 13 E 13				
					2/19 SB 14 GW 14
	2/22 HW 14 E 14				2/26 SB 15 GW 15
March	3/1 HW 15				
					3/12 SB 16 GW 16
	3/15 HW 16 E 15 & 16				
					3/26 SB 17 GW 17
	3/29 HW 17 E 17				
April					4/9 SB 18 GW 18
	4/12 HW 18 E 18				
					4/23 SB 19 GW 19
	4/26 HW 18 E 19				