

**CHM 112 - GENERAL CHEMISTRY II
SYLLABUS – SPRING 2020**

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Office hours: MWF 8:30 – 9:30 AM; 11:00 AM – 12:00 PM
or by appointment via Starfish

Class Meetings:
CHM 112-1: Beaupre 100 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 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

Books/Resources.

Required: General Chemistry: The Essential Concepts 7th ed. by Raymond Chang; Chapters 14-19

Online access to Connect (Chang, 7th ed.)

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 course.

Grading Policies.

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

Exams (Average of 4 exams)	60 %
Final Exam	16 %
Assignments:	
HW (Connect)	12 %
LS (Connect) + Group Work	12 %
<hr/> Total	<hr/> 100 %

Course grades will be assigned according to the scale shown:

>90 = A-/A 76 - 89 = B-/B/B+ 60 - 75 = C-/C/C+ 52 - 59 = D/D+ <52 = 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!

No make-up exams will be given. The final exam score will replace the grade of 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 information and concepts learned in previous chapters, so all exams are cumulative

You will be assigned a seat in Beaupre 100 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 are instructed to enter. Things to bring to each exam: **calculator, blue or black pen (exams must be written in ink), and your URI ID**. 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. Any errors in grading must be brought to my attention within 48 hours of the material being handed back in class. 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.

Assignments will be administered through Connect. Information for the assignments and for registering for Connect is given in Sakai.

In addition, there will be four Group Work (GW) given during class time that are primarily based on attendance. Average of the GW will count as one LS assignment.

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.

Help Sources.

- AEC (Academic Enhancement Center). This is a challenging course. Success requires that you keep pace with the work, understand course concepts, and study effectively. The AEC helps URI students succeed through Subject-Based Tutoring, walk-in tutoring, and academic coaching. To learn more about these services, please visit uri.edu/aec or call 401-874-2367.
- Beaupre 115 Chemistry Learning Center. Help is available from Chemistry TAs at the Learning Center. Schedule is posted in Sakai.

Whether you're seeking help from Dr. Ngo, an AEC Tutor, or a Chemistry TA, you'll want to arrive at your help session *on time and fully prepared*, so as to make the discussion as productive and efficient as possible. This means you should bring all relevant study/reference materials with you to the session (e.g., lecture notes, study notes, *written* list of specific questions).

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 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 concisely on the subject line; write a clear and complete message.

CHM 112 Lecture/Exam/Assignment 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 #	Monday	Wednesday	Friday
1		1/22 Syllabus; CHM 101 skill check	1/24 Ch 14
2	1/27 Ch 14	1/29 Ch 14	1/31 Ch 14
3	2/3 Ch 14	2/5 14	2/7 Ch 14, 15
4	2/10 <i>Exam 1 (Ch 14)</i>	2/12 Ch 15	2/14 Ch 15
5	2/17 Ch 15	2/19 Ch 15, 16	2/21 Ch 16
6	2/24 Ch 16	2/26 Ch 16	2/28 Ch 16
7	3/2 <i>Exam 2 (Ch 15, first part of 16)</i>	3/4 Ch 16	3/6 Ch 16
8	3/9 No Class (Spring Break)	3/11 No Class (Spring Break)	3/13 No Class (Spring Break)
9	3/16 Ch 16, 17	3/18 Ch 17	3/20 Ch 17
10	3/23 Ch 17	3/25 Ch 17	3/27 Ch 17
11	3/30 Ch 17	4/1 Ch 17, 18	4/3 <i>Exam 3 (last part of Ch 16, 17)</i>
12	4/6 18	4/8 Ch 18	4/10 Ch 18, 19
13	4/13 Ch 19	4/15 Ch 19	4/17 Ch 19
14	4/20 Ch 19	4/22 Ch 19	4/24 <i>Exam 4 (Ch 18, 19)</i>
15	4/27 Review		5/1 Final Exam 8:00 – 11:00 AM

CHM 112 Connect Assignment Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
January			1/29 HW-Intro		
February			2/5 LS 14		2/7 HW 14
			2/19 LS 15		2/21 HW 15
March	3/16 LS 16; HW 16				
April			4/1 LS 17		4/3 HW 17
					4/10 LS 18
	4/13 HW 18				
			4/22 LS 19		4/24 HW 19