## CHM 112 - GENERAL CHEMISTRY I SYLLABUS - SPRING 2021

**Instructor**: Dr. Maria Donnelly

Office: Beaupre 117C Email: madon@uri.edu

Office hours: Appointments can be made using URI's Starfish Success Net

- Students should not sign up for more than 2 consecutive time slots

- For appointments outside office hours, email me for availability

- Office hours for this semester will be held via zoom

## **Course Description**

CHM 112 continues laying the foundation for future chemistry, biochemistry, pharmaceutical, and engineering courses that was started in CHM101. The terminology, fundamental principles, and theories presented in CHM112 will be heavily used in these future courses. An understanding of the material presented and the ability to apply the concepts being studied to real-world problems is essential for many different fields of study.

## **Resources & Required Course Materials**

- Textbook: McGraw Hill Chemistry: Atoms First, Burdge/Overby, 4th Edition.
- **Brightspace & URI email:** Brightspace will be used to post grades and for official course communications; therefore, it is ESSENTIAL that you regularly check the Brightspace site and your URI email to ensure that you do not miss important information. You will need to opt into receiving email notifications from Brightspace. Brightspace will also contain your exams, assignments, links to course materials, and various other study resources.
- Lectures: Lecture presentations will be recorded and posted to YouTube. Links to these videos will be posted on Brightspace and/or the course web page, which can be accessed through Brightspace. Pdf files of the PowerPoint presentations will also be available on the same web page, but these files will not contain the solutions to the example problems. The example problems will be worked through in the video lectures; watching these lectures is a required part of this course. You may find it beneficial to use the pdf files to take notes while watching the lecture videos.
- Connect: McGraw Hill's Connect program will be used for homework and exams. Both the on-line homework and the Smart Book assignments are required as part of your grade. Information on how to access Connect can be found on the course Brightspace site.
- Calculator: CHM 112 is a math intensive course, and a scientific calculator will be an essential tool for lecture, exams, and out of class assignments.

### **Additional Study Help Resources**

- **TA Office Hours:** Teaching assistants hold office hours each week. For this semester, the office hours will be held remotely via Webex. The address for the general chemistry office hour Webex room and a schedule of office hours for the semester will be available through Brightspace.
- Academic Enhancement Center (AEC): Located in Roosevelt Hall, the AEC offers free face to face and web-based services to undergraduate students seeking academic support. Peer tutoring is available for STEM-related courses through drop-in centers and small group tutoring. The Writing Center offers peer tutoring focused on supporting undergraduate writers at any stage of a writing assignment. The UCS160 course and academic skills consultations offer students strategies and activities aimed at improving their studying and test-taking skills. Complete details about each of these programs, up-to-date schedules, contact information and self-service study resources are all available on the AEC website, web.uri.edu/aec.

#### **Class Meetings**

• Section 4: Tuesday & Thursday, 9:30 – 10:45 am in Beaupre 100. The lecture presentations will be posted to YouTube throughout the semester and can be viewed at any time. They will remain available until the end of the semester. It will be very important for you to view the lectures in a timely manner to ensure that you are prepared for your exams. On Thursdays, class will meet via zoom during the scheduled class time to complete required group work assignments. The Tuesday time will be an optional zoom session during which students will be able to ask questions in real time about course material. The format of the Tuesday session may vary throughout the semester depending on evolving student needs.

## **Disability Accommodations**

Your access in this course is important. Please send me your Disability Services for Students (DSS) accommodation letter early in the semester so that we have adequate time to discuss and arrange your approved academic accommodations. If you have not yet established services through DSS, please contact them to engage in a confidential conversation about the process for requesting reasonable accommodations in the classroom. DSS can be reached by calling: 401–874–2098, visiting: web.uri.edu/disability, or emailing: dss@etal.uri.edu. We are available to meet with students enrolled in Kingston as well as Providence courses.

## **Grading & Testing Policies**

Course grades will be determined by each student's performance on all assignments and exams. The final grade will be calculated as follows:

Online Homework, Smart Book, & Participation	20 %
3 of 4 Lecture Exams* (20 % each)	60 %
Final Exam	20 %
Total	100%

The formula used to calculate your final average is:

Course Average = (Homework average\*\* x 0.20) + (Exam average x 0.80) \*\*includes homework, smart book, & group work participation

\*In order to eliminate the need for make-up exams, and to avoid having a single assessment have too large of an impact on your grade, you will be graded on four of five exams. For students who do not miss an exam, the final exam may take the place of their lowest lecture exam if the final exam grade is higher. Students who are happy with their grade based on the four in-class exams may elect to not take the final exam. The purpose of this policy is to eliminate the need for make-up exams.

Lecture Exams will be given during class time through Brightspace. The exam questions will be given in the quizzes section of Brightspace. Answers to multiple choice questions will be submitted through the quizzes section. Work and answers for short answer questions will be submitted through the assignments section of Brightspace, which has additional grading tools not available in the quizzes section. Exams will have submission deadlines – points (up to one point per minute late) will be deducted for late submissions. Use of the text book and notes is permitted; however, attempting to look up information online or receiving assistance from any other individual during an exam is considered academic dishonesty and is not permitted.

Some exams may have a portion of the credit earned through assignments posted in the assignments section of Brightspace. Information about these assignments will be posted in Brightspace prior to the exam, so make sure to check the course Brightspace site regularly.

If you believe that there is an error in your exam grade, you must bring your concern to my attention within 48 hours of the graded exam being returned to you. No grade changes will be considered after this time. Any request for re-grading must be submitted in writing, and the entire exam will be looked at during re-grading.

Students receiving disability accommodations, participating in <u>University sanctioned</u> events, or observing religious holidays may receive alternate testing accommodations. These arrangements require approved documentation. Written notification of a request for alternate testing accommodations must be made at least one full week prior to the scheduled exam.

Grades in CHM 112 are based on a student's level of mastery of the material presented and must be earned by demonstrating proficiency in the required skills. Grades are not negotiable and are NOT determined by what is required by a student's desired degree program. The following grading scale will be used:

$$\geq 90\% = A/A-; 80-89\% = B-/B/B+; 66-79 = C-/C/C+; 55-65\% = D; <55\% = F$$

## **Incomplete Policy:**

Incomplete grades <u>cannot</u> be assigned except in the case of a real emergency. Any grade of incomplete must be approved by the department chair and the dean. In order to receive an incomplete, a student's <u>course</u> work must have been passing and the student must have completed at least half of the coursework for the semester. Incompletes should be made up within one year of the semester in which the grade of incomplete was assigned. If an incomplete is not made up prior to the two year grade change deadline established by the University, the "I" will be replaced with a grade calculated for the student based on the work completed and including zeroes for any work not completed.

#### **Assignments**

McGraw Hill's Connect on-line homework and Smart Book programs will be used for graded assignments. Students see the greatest value from these tools when they register for Connect as soon as possible and complete all assignments in a timely manner. A link to the course Connect site can be found on Brightspace.

To receive full credit, on-line <a href="https://www.nework.com/homework">homework</a> assignments must be completed by 11:59 pm on the date indicated on the list of assignments in Connect. Homework assignments can be attempted multiple times, with the attempt that has earned the largest number of points being used in the calculation of the final homework average. Combinations of assignments can be used if the student emails me to let me know that an assignment has been completed in multiple submissions. Late homework will be accepted at a loss of 2% credit per day. Late points are automatically deducted; requests for extensions are not required.

If you would like to complete a Smart Book activity past the due date, you must send me a request via email. There is no limit to the number of requests for extensions on Smart Book assignments. If you do not request an extension, your grade for the Smart Book assignment will be calculated by the Connect program based on the percentage completed prior to the date and time the assignment is due.

Homework, Smart Book assignments, and Participation in the synchronous zoom group work meetings will be averaged together to determine the final homework/participation average; for this calculation, homework assignments will be counted as the number of points earned on that assignment and Smart Book assignments will be counted as the number of points equal to the percentage of the assignment that was completed. Participation in the zoom group assignments is worth 50 points per meeting. One absence from the synchronous zoom group work meetings will be permitted without penalty.

Brightspace will also be used to post various learning tools and any additional assignments.

## **Academic Integrity**

Academic dishonesty is a serious offence, and URI's policy on academic honesty will be strictly enforced. This policy states, in part, that "Students are expected to be honest in all academic work. A student's name on any written work including assignments, lab reports, internship reports, papers, or examinations, shall be regarded as assurance that the work is the result of the student's own thought and study. Work should be stated in the student's own words and produced without assistance or properly attributed to its source." The entire policy can be found in the student handbook, which is available online (https://web.uri.edu/studentconduct/student-handbook/). Some examples of academic dishonesty contained in that policy include:

- 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 such as calculators, computers, or cell phones to gain an unauthorized advantage during exams
- · Facilitating or aiding another's academic dishonesty

# ACADEMIC INTEGRITY VIOLATIONS MAY RESULT IN THE STUDENT RECEIVING A FAILING GRADE FOR THE ASSIGNMENT OR FOR THE ENTIRE COURSE.

## University COVID syllabus statement

The University is committed to delivering its educational mission while protecting the health and safety of our students. At this uncertain time, those concerns include minimizing the potential spread of COVID-19 within our community. While the university has worked this summer to create a healthy learning environment for all, it is up to all of us to ensure our campus stays that way.

As members of the URI community, students are required to comply with standards of conduct and take precautions to keep themselves and others safe. Students are required to comply with Rhode Island state laws, including the Rhode Island Executive Orders related to health and safety, ordinances, regulations, and guidance adopted by the University as it relates to public health crises, such as COVID-19.

An addendum on policies and guidelines concerning your obligations during this crisis has recently been integrated into the Student Handbook. These obligations include:

- Wearing of face masks by all community members when on a URI campus in the presence of others
- Maintaining physical distancing of at least six feet at all times
- Following state rules on the number of individuals allowed in a group gathering
- Completing a daily health self-assessment also available through the Rhody Connect app before coming to campus
- Submitting to COVID-19 testing as the University monitors the health of our community
- Following the University's quarantine and isolation requirements

If you answer yes to any of the questions on the daily health assessment, do not come to class. YOU MUST STAY HOME/IN YOUR ROOM and notify URI Health Services via phone at 401-874-2246 immediately.

If you are already on campus and start to feel ill, you need to remove yourself from the public and notify URI Health Services via phone immediately at 401–874–2246 and go home/back to your room and self– isolate while you await direction from Health Services. We will work together to ensure that course instruction and work is completed for the semester.

#### Anti-Bias Statement:

We respect the rights and dignity of each individual and group. We reject prejudice and intolerance, and we work to understand differences. We believe that equity and inclusion are critical components for campus community members to thrive. If you are a target or a witness of a bias incident, you are encouraged to submit a report to the URI Bias Response Team at www.uri.edu/brt. There you will also find people and resources to help.

#### Final Note on how to achieve success in CHM112

CHM112 is a math intensive course that requires a true understanding of the material being taught - memorization alone is not enough. CHM112 can be a challenging course, but with sufficient effort success is possible! Success in this course requires significant effort from the student. You will be expected to understand many complex processes and to master numerous mathematical skills. It is EXTREMELY important for you to stay on top of your work. Many of the scientific topics that are covered later in the semester build upon those that are learned earlier in the semester - early mastery of those concepts will make it much easier for you to understand later material. Successful CHM112 students are those who put in the necessary effort starting at the very beginning of the semester. You will want to prepare for and participate in all lectures, and practice what you have learned. Make sure to complete all assignments in a timely manner. Actively work to learn the material throughout the semester. If you find that you are struggling SEEK HELP RIGHT AWAY. Use the Starfish Success Net (there is a link on the Brightspace site) to make an appointment to see me - (or simply stop by my office if the COVID situation improves) - I am happy to go over material that you are struggling with. answer questions about homework problems, etc. You can also visit the TAs via Webex or the tutors in the AEC. The important thing is that you get help EARLY!

#### **SCHEDULE**

Chapter	Title	Week/Date				
13	Physical Properties of Solutions	2-4				
14	Chemical Kinetics	2-4				
Exam 1	Chapters: 13 & 14	Thursday Feb. 18 <sup>th</sup>				
15	Entropy and Gibbs Energy	5-7				
16	Chemical Equilibrium					
Exam 2	Chapters: 15 & 16	Thursday March 11th				
17	Acids, Bases, and Salts	8-10				
18	Acid-Base Equilibria and Solubility Equilibria					
Exam 3	Chapters: 17 & first part of 18	Thursday April 1st				
18	Acid-Base Equilibria and Solubility Equilibria	11-13				
19	Electrochemistry	11-15				
Exam 4	Chapters: second part of 18 & 19	Thursday April 22 <sup>nd</sup>				
**Final Exam: Tuesday May 4th 8:00 - 11:00 am						

<sup>\*\*</sup> Final exam dates are set by the University and are subject to change

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday			
January									
24	25	26	27	28 Intro Mtg	29	30			
February									
31	1 SB13	2 Optional Mtg	3	4 Group Work C13	5 HW13	6			
7	8 SB14	9 Optional Mtg	10	11 Group Work C14	12 HW14a	13			
14	15	16 Optional Mtg	17	18 Exam 1	19 HW14b	20			
21	22 SB15	23 Optional Mtg	24	25 Group Work C15	26 HW15	27			
	March								
28	1 SB16	2 Optional Mtg	3	4 Group Work C16	5 HW16a	6			
7	8	9 Optional Mtg	10	11 Exam 2	12 HW16b	13			
14	15 SB17	16 Optional Mtg	17	18 Group Work C17	19 HW17a	20			
21	22 SB18	23 Optional Mtg	24	25 Group Work C18	26 HW17b	27			
28	29	30 Optional Mtg	31						
April									
				1 Exam 3	2 HW18a	3			
4	5	6 Optional Mtg	7	8 Group Work C18	9 HW18b	10			
11	12 SB19	13 Optional Mtg	14	15 Group Work C19	16 HW19a	17			
18	19	20 Optional Mtg	21	22 Exam 4	23 HW19b	24			
25	26	27	28	29	30				

- Smart Book & Homework assignments (in purple) are due on Mondays & Fridays
  - Dates may be pushed back but will not be moved to earlier deadlines
  - There is one Smart Book assignment per chapter
  - Most chapters (except 13 & 15) have two homework assignments
- Optional meetings are in green
- Required group work sessions are in blue
- Semester exams are in red

#### **Notable Dates:**

- Monday Feb 15th: President's Day, classes DO meet
- Tuesday Feb. 16th: last day to drop courses with no transcript designation of "W"
- Tuesday March 9th: last day for students to drop courses in ecampus; dropping a course after this date will require the permission of your academic dean.
- April 26th: Last day of classes