

**CHM 101 Section 3: General Chemistry I  
Fall 2021 Syllabus**

**Instructor:** Dr. Shahla Yekta  
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**Help Hours via zoom only:**  
**Tu/Th 7-8pm open hours**  
**M/W/F 10-11am by appointment**

**Class Meetings in Beaupre 100:** Section 3: M/W/F 11:00 am – 11:50am

**Course Description:** Humans have wondered and have asked questions about the world around them for millennia and chemistry is an old science with hundreds of years of built expertise that helps you understand how your world is the way it is. General chemistry is the first step in understanding many of the basic functions of life on Planet Earth and beyond! Together, we will work as a class to learn the fundamental chemical concepts and principles with an emphasis on quantitative problem solving.

**Exam Dates** (exams will be held on weekends, online and they are all open book)

**Exam 1:** Weekend of 9/24-9/26 (CH1-3)

**Exam 2:** Weekend of 10/22-10/24 (CH4-6)

**Exam 3:** Weekend of 11/12-11/14 (CH7-9)

**Exam 4:** Weekend of 12/10-12/12 (CH10-12)

**Cumulative Final Exam:** **December 15-21. Once you start the exam you will have 2 hrs to finish the exam.**

**Books/Resources**

- Optional: Burdge Overby, Chemistry: Atoms First 4<sup>th</sup> edition: chapters 1-12
- Online access to Connect (Burdge 4e), required
- CHEM101 access, required

**Connect Link:** <https://connect.mheducation.com/class/s-yekta-chm101-section-3-f21>

**CHEM101 APP SECTION 3 CODE:** UALGS2

**TECHNOLOGY REQUIREMENTS**

To successfully complete this course, you will need access to a computer with reliable, high-speed Internet access and appropriate system and software to support the Brightspace learning platform. Typical technical requirements for users are:

Windows 7 (XP or Vista) 64 MB Ram 28.8 kbps modem (56k or higher recommended) SoundCard & Speakers External headphones with built-in microphone Mozilla Firefox 9.0 or higher	Mac OS X or higher 32 MB Ram 28.8 kbps modem (56k or higher recommended) SoundCard & Speakers External headphones with built-in microphone Mozilla Firefox 9.0 or higher; Safari 5.0 or higher
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Also requires Word 2007 (PC) 2011 (MAC) or newer, PowerPoint, Excel, Adobe Flash, and Adobe Acrobat Reader.

## CLASSROOM PROTOCOL

**You must ALWAYS have your mask on during the class time. Your mask must cover your nose and mouth (not below the nose). You will be asked to leave the classroom if you do not comply with this mask policy. This classroom has a zero tolerance policy for anyone who does not follow the mask mandate.**

The classroom this Fall will include both in-person graded attendance (quizzes and CHEM101 app questions for every lecture!) held in Beaupre 100 as well as online participation through online exams, online homework assignments and online office hours.

Should we move to a full remote classroom due to COVID-19, then attendance will be mandatory on zoom, and you will be notified of the changes to classroom setup at that point.

Please refer to the [Brightspace YouTube video tutorials](#) before you get started and refer back to them as a resource as needed while you complete this course.

## Learning Objectives

- Apply your understanding of the chemical principles associated with the atom (e.g. atomic theory, electronic configuration) by demonstrating how and why atoms bond.
- Predict quantitative relationships in chemical processes (e.g. mole, molar mass, balancing equations) by employing stoichiometry and dimensional analysis
- Differentiate between factors that affect chemical processes;
- Integrate various chemical principles to predict reaction outcomes;
- Applying algebraic skills and using a scientific calculator to correctly solve a multi-step problem.
- Defend your answers to computational problems based on chemical concepts as well as mathematical models.
- Identify resources that will help you solve problems.
- Self-regulate your study time in the course consistently in order to better manage the course material;
- Develop a fluid ability to work productively in group.
- Identify relevant course notes that help answer questions throughout the semester
- Transfer the knowledge acquired in this class to other courses in your majors working toward your ultimate university goal.

## Course Assessment

**GROUPS:** You are placed in groups. Your group number is listed under the Grades tab in Brightspace, under a column called Group Number. It's a number out of 200. So if your group is 11/200 then you are in Group 11.

**Class Attendance:** You are expected to be present in class. There is a participation grade associated with your presence and participation in class. This is worth 10% of your overall grade (so it is quite significant and can mean the difference between a whole letter grade if you don't get it. For you to receive full credit, you MUST attend 75 % of class time. That means you can miss 10 classes without penalty after which point, you will receive 0 for class attendance: this means you either get 10% of your class grade or you don't and that depends on whether you miss less than 10 classes or more than 10 classes. **There is NO exception to this.** *Missing 10 classes amounts to more than 3 weeks of school!* If we switch to online & remote in the semester due to COVID-19, you will be expected to be present for the zoom sessions and an alternative syllabus will be provided adjusting for remote teaching/learning.

*Homework assignments:* You will have 12 homework assignments that are based on every chapter we cover in the course. These assignments are done online using your McGraw Hill Connect account and you have unlimited attempts to do each one. This means that you can keep redoing the assignments until you get a perfect score! This is so that you can spend the time to practice every problem without worrying about making mistakes until you can solve the problem. I highly encourage you to do these assignments in your groups and to try to use them truly to practice problem solving.

*Group Quizzes:* You will be given 4 in-class online quizzes during the semester. Part of your learning experience in this class will involve working in groups of 3-5 students to solve problems on quizzes given in some classes (Dates posted in schedule below). You will be assigned to your group at the beginning of the class and will work together with your group members throughout the semester. Each group member will submit their own quiz online, however, you get to work together on it. Once you start the quiz, you have a limited time to complete the quiz and the time will depend on the length of the quiz and may vary each time.

You can use these platforms to “meet” with your groups if meeting in person is difficult and you wish to get together outside of class time. They are freely available through URI.

**Google hangouts:** <https://web.uri.edu/itservicedesk/webex-free-from-its/>

**URI WebEx:** <https://web.uri.edu/itservicedesk/google-hangouts/>

**URI Zoom:** <https://web.uri.edu/itservicedesk/zoom-at-uri/>

*Exams 1-4:* These are exams throughout the semester that you will write online on Brightspace. The exams are open-book (please note that using any search engine or material outside of the class material is considered cheating). Every exam has a 2-day window, opening on a Friday at 2:30pm and closing on Sunday at 9pm. Once you begin the exam, you will have a limited time to finish the exam and the time depends on the length of the exam. Note that these exams are not worth the same. Exam 1 is 15% of your grade, Exam 2 is 14% of your grade, Exam 3 is 12% of your grade and Exam 4 is 11% of your grade. This assignment is based on the difficulty of the content of the exams. Exam 1 is typically much easier content, and it is worth more, allowing a chance at doing better in your overall grade! And so on.

*Final Exam:* Your final exam will be a multiple choice open-book cumulative exam, covering all the course content. You will have a window of time to start the exam and once you start you have limited time to finish all questions. It is expected that you will be doing the final exam on your own without acquiring help from anyone else or without using google. Please note that getting help in any way other than the course notes is considered cheating.

**Your course grade will be calculated as follows:**

Class attendance/participation	10 %
Syllabus Quiz	2 %
Group quizzes (4)	12 %
Exams (4) These are not worth the same!	52 %
Final Exam	14 %
Connect homework (best 10 out of 12)	10 %
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Total	100 %

The final exam score will replace the grade of any one of the four weekend exams that is missed. ***The purpose of replacing a missed lecture exam with the final exam score is to eliminate the need for a***

***make-up exam. No make-up exams will be given.*** Students who miss an exam should ***NOT*** inquire as to whether they may be given a make-up test.

Anyone who has the following overall average is guaranteed at least the grade shown: A = 100-94; A- = 93-90; B+ = 89-86; B = 84-85; B- = 80-83; C+ = 79-76; C = 75-74; C- = 70-73; D = 69-64; below 64 = F. **Note: You need a C- to move on to any other Chemistry course in our department!**

### **The Academic Enhancement Center (AEC)**

The Academic Enhancement Center (AEC) helps URI students succeed through three services: Academic Coaching, Subject-Based Tutoring, and The Writing Center. To learn more about any of these services, please visit [uri.edu/aec](http://uri.edu/aec) or call 401-874-2367 to speak with reception staff.

Subject Tutoring, located on the fourth floor of Roosevelt Hall, helps students navigate course content in select STEM disciplines (including chemistry!). Options for peer tutoring include: joining a Weekly Tutoring Group, stopping by a Walk-In Center or making a One-Time Group Appointment. To view more information about offerings and schedules, please visit [uri.edu/aec/tutoring](http://uri.edu/aec/tutoring).

### **Academic Integrity**

Students are expected to be honest in all academic work. A student's name on any written work, quiz or exam shall be regarded as assurance that the work is the result of the student's own independent thought and study. The university policy on academic honesty will be strictly enforced. Any incidence of academic dishonesty, as defined by the policies outlined in the URI Student Handbook, will result in either one or all of the following: a grade of zero for the exam, failure for the course and/or formal notification to the Dean of Students. The following are examples of academic dishonesty:

- Claiming disproportionate credit for work not done independently
- 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 or exams
- The use of notes or electronic devices to gain an unauthorized advantage during exams
- Facilitating or aiding another's academic dishonesty
- The use of google or other search engines at any time during online examinations.

*Disclaimer: The contents of this syllabus may change if we switch to remote teaching and learning due to COVID-19.*

### Suggested Lecture/Exam Schedule Fall 2020\*

Week #	Monday	Wednesday	Friday
1		9/8 Syllabus, CH 1	9/10 CH 1
2	9/13 CH 2	9/15 CH 2	9/17 CH 2
3	9/20 CH 3	9/22 CH 3	9/24 Quiz 1/CH 3
4	9/27 CH 4	9/29 CH 4	10/1 CH 4
5	10/4 CH 4	10/6 CH 5	10/8 Quiz 2/CH 5
6	10/11 <b>No class</b>	10/13 CH 5	10/15 CH 6
7	10/18 CH 6	10/20 CH 6	10/22 CH 6
8	10/25 CH 7	10/27 CH 7	10/29 CH 7
9	11/1 Quiz 3/CH 8	11/3 CH 8	11/5 CH 9
10	11/8 CH 9	11/10 <b>No class</b>	11/12 CH 9
11	11/15 CH 9/CH 10	11/17 CH 10	11/19 CH 10
12	11/22 CH 10	11/24 <b>No class Thanksgiving Break</b>	11/26 <b>No class Thanksgiving Break</b>
13	11/29 CH 10	12/1 CH 11	12/3 CH 11
14	12/6 CH 11	12/8 CH 12	12/10 Quiz 4/CH 12
15	12/13 Course recap	12/15 <b>Reading Day</b>	

\*Please note that this schedule can change throughout the semester, however, all exam, quiz and assignment due dates will remain as stated in the syllabus

**Final Exam: December 16-22. Once you start the exam you will have 2 hrs to finish the exam.**

### Homework (HW) Due Dates Fall 2021

All homework assignments are due at 11:59 pm on the date listed below unless you are notified otherwise.

HW 1 (Chapter 1): Sun 9/12  
 HW 2 (Chapter 2): Sun 9/19  
 HW 3 (Chapter 3): Sun 9/26  
 HW 4 (Chapter 4): Sun 10/10  
 HW 5 (Chapter 5): Sun 10/17  
 HW 6 (Chapter 6): Sun 10/24

HW 7 (Chapter 7): Sun 10/31  
 HW 8 (Chapter 8): Sun 11/7  
 HW 9 (Chapter 9): Sun 11/14  
 HW 10 (Chapter 10): Sun 11/28  
 HW 11 (Chapter 11): Mon 12/6  
 HW 12 (Chapter 12): Sun 12/12