**CHM 101 Section 3: General Chemistry I**
**Fall 2020 Syllabus**

**Instructor:**   Dr. Shahla Yekta                            **Office Hours via zoom TBD**
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**Online Asynchronous**

**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.


**Cumulative Final Exam:** December 16-22. *Once you start the exam you will have 2.5hrs to finish the exam.*

**Books/Resources**
- Optional: Burdge Overby, Chemistry: Atoms First 4th edition: chapters 1-12
- Online access to Connect (Burdge 4e), required

**Connect Link:** https://connect.mheducation.com/class/s-yekta-section-3-online-asynchronous

## 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) | Mac OS X or higher |
| --- | --- |
| 64 MB Ram | 32 MB Ram |
| 28.8 kbps modem (56k or higher recommended) | 28.8 kbps modem (56k or higher recommended) |
| SoundCard & Speakers | SoundCard & Speakers |
| External headphones with built-in microphone | External headphones with built-in microphone |
| Mozilla Firefox 9.0 or higher | Mozilla Firefox 9.0 or higher; Safari 5.0 or higher |

Also requires Word 2007 (PC) 2011 (MAC) or newer, PowerPoint, Excel, Adobe Flash, and Adobe Acrobat Reader.

You will also need a scanner app (free ones like Tinyscanner are perfect for this) to scan one assignment per group twice a week that you will email me as a pdf file by the deadline

**CLASSROOM PROTOCOL**

For this online course, Brightspace is our "classroom." 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.

In the online learning environment, "attendance" is measured by your PRESENCE in the site as well as your CONTRIBUTIONS to the site. The importance of regular log-ins and active participation cannot be overstated.

**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**

*Introduction forum:* Please introduce yourselves to your classmates in this section on the Brightspace LMS. Then comment on at least five classmates' posts.

*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 as a means to practice problem solving.

*Group Quizzes*: You will be given 3 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. 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.

*Group Assignment:* This assignment is due on **Tuesday November 24 by 10pm**. You must do this with your group and *every group will submit one assignment as a scanned pdf file.* Please use your phone and a free scanning App such as Tinyscanner for this purpose. **Files must be in pdf format** (I will not accept photographs, or any other format other than pdf) and emailed by the due date. Only one file per group will be accepted. Please follow all the instructions given to you on the assignment to avoid losing points. Note that coping answers from google is cheating and you will receive a grade of zero by doing so.

You can use these platforms to "meet" with your groups. 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/

*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:**

| | |
|---|---|
| Introduction forum | 2 % |
| Group Assignments (1) | 12 % |
| Group Quizzes (3) | 10 % |
| Exams (4) | 48 % |
| Final Exam | 18 |
| Connect homework (best 11 out of 12) | 10 % |
| Total | 100 % |

The final exam score will replace the grade of any one of the three lecture 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 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.

**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

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

| Week # | Monday | Wednesday | Friday |
|---|---|---|---|
| 1 | | 9/9<br>Syllabus, CH 1 | 9/11<br>CH 1 |
| 2 | 9/14<br>CH 2 | 9/16<br>CH 2 | 9/18<br>CH 2 |
| 3 | 9/21<br>CH 3 | 9/23<br>CH 3 | 9/25<br>Quiz 1/CH 3 |
| 4 | 9/28<br>Exam 1 (1, 2, 3) | 9/30<br>CH 4 | 10/2<br>CH 4 |
| 5 | 10/5<br>CH 4 | 10/7<br>CH 4 | 10/9<br>CH 5 |
| 6 | 10/12<br>CH 5 | 10/14<br>CH 5 | 10/16<br>CH 6 |
| 7 | 10/19<br>CH 6 | 10/21<br>CH 6 | 10/23<br>Exam 2 (4, 5, 6) |
| 8 | 10/26<br>CH 7 | 10/28<br>CH7 | 10/30<br>CH7 |
| 9 | 11/2<br>Quiz 2/CH 8 | 11/4<br>CH 8 | 11/6<br>CH 9 |
| 10 | 11/9<br>CH 9 | 11/11<br>No class Veteran's Day | 11/13<br>CH 9 |
| 11 | 11/16<br>Exam 3 (CH 7, 8, 9) | 11/18<br>CH 10 | 11/20<br>CH 10 |
| 12 | 11/23<br>CH 10 | 11/25<br>No class Thanksgiving Break | 11/27<br>No class Thanksgiving Break |
| 13 | 11/30<br>CH 10 | 12/2<br>CH 11 | 12/4<br>CH 11 |
| 14 | 12/7<br>CH 11 | 12/9<br>CH 12 | 12/11<br>Quiz 3/CH 12 |
| 15 | 12/14<br>Exam 4 (CH 10, 11, 12) | 12/15<br>Reading Day | |

**\****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 2.5hrs to finish the exam.**

**Homework (HW) Due Dates Fall 2020**

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

| | | | | |
|---|---|---|---|---|
| HW 1 (Chapter 1): | Sun 9/13 | | HW 7 (Chapter 7): | Sun 11/1 |
| HW 2 (Chapter 2): | Sun 9/20 | | HW 8 (Chapter 8): | Thurs 11/5 |
| HW 3 (Chapter 3): | Sun 9/27 | | HW 9 (Chapter 9): | Sun 11/15 |
| HW 4 (Chapter 4): | Sun 10/11 | | HW 10 (Chapter 10): | Mon 11/30 |
| HW 5 (Chapter 5): | Fri 10/16 | | HW 11 (Chapter 11): | Tues 12/8 |
| HW 6 (Chapter 6): | Thurs 10/22 | | HW 12 (Chapter 12): | Sun 12/13 |