

Fall 2023

Dr. Maria A. Donnelly Beaupre 117C madon@uri.edu

Why Learn Chemistry?

To better understand the environment around us



Medicine

- Understanding disease
- Develop new drugs

Environmental Science

- Ozone layer
- •Global warming
- Acid rain





Agriculture

- Bioengineered food
- Fertilizers

Criminal Justice & Safety

- Forensics
- Explosives
 - & Drug detection
- Safety equipment

Material Science

- Better built houses
- More efficient cars
- Plastics, composites



Why Learn Chemistry? Fun!

Fireworks!



New materials for sports equipment!



Better electronic devices & gaming systems!



High tech clothing for any activity!



Course Organization & Expectations CHM101 - Freshman Chem. Lecture (lab - CHM102)

- First half of 2 semester general chemistry sequence
- Required if need 3-4 semesters of chemistry for your major
- Pharmacy, Engineering, some Biology & Environmental Science majors, Pre-professional programs (medical, dental, veterinary etc.)
- Emphasis on mathematical skills (esp. algebra) & problem solving (most exams at least 80% math)
- Other General Chemistry courses 103, 191
- If you think you may be enrolled in the wrong course, let me know right away

Labs Start Wednesday 9/6 Experiments Start Tuesday 9/12

Safety Training is required for all Chem. Labs You must complete the required on-line lab safety module before the second lab session or you will not be able to participate in that lab - CHM 102 has only ONE make-up lab!

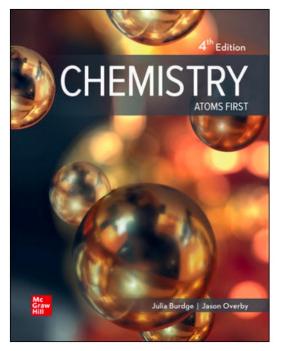
This first week, your TA will cover important information about safety training and lab & department policies. If you missed lab this week, try to attend another session in your normal lab room today or tomorrow.

See the Start Here module in your CHM 102 Brightspace site for more information.

Course Organization & Expectations

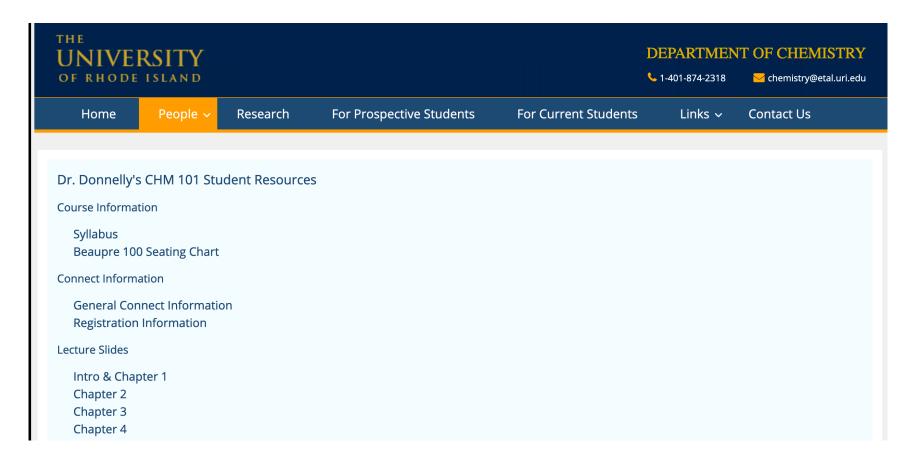
Required Materials

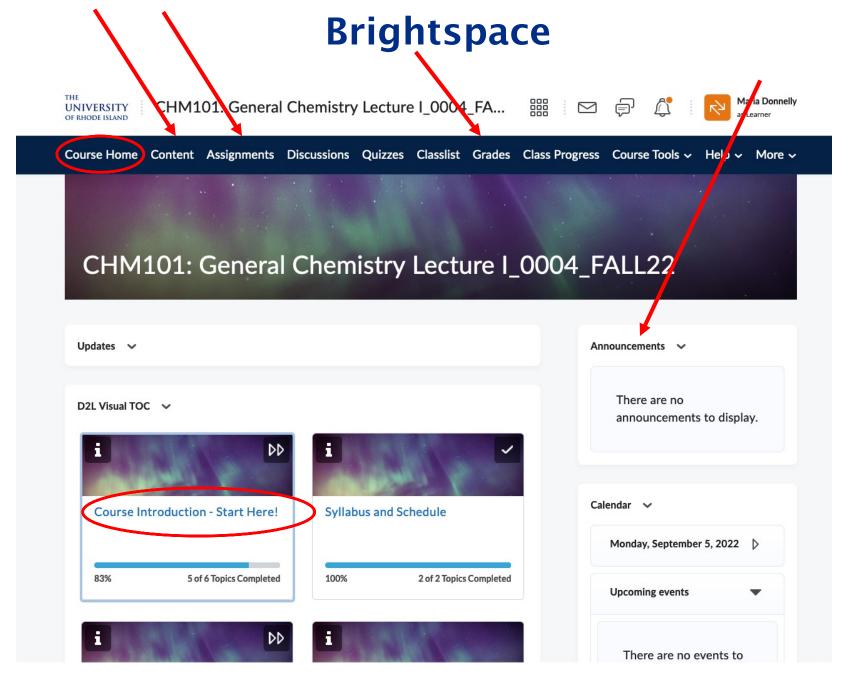
- Book: Chemistry: Atoms First 4th edition
 - By Julia Burdge & Jason Overby
 - Published by McGraw Hill
 - Can use either paper or electronic
 - Access to Connect online homework
 - Smart Book assignments
 - Homework assignments
 - Scientific calculator
 - Brightspace/URI email
 - Gradebook
 - Announcements
 - Some additional assignments
 - Links to course resources
 - Many course resources can also be accessed through https://www.chm.uri.edu/index.php/misc-user-page/?buttonname=miscbutton&person=mdonnelly&topicname=CHM101



Chapters 1-12

Useful Information: lecture notes, old videos from remote learning, etc. available on course resources site





Announcements - might need to opt in for emails!

Brightspace

11 Table of Contents 6 Course Introduction -Start Here! 2 Syllabus and Schedule 1 Link to course content videos and slides Help Is Available!!! 1 Using the Connect Drawing tool 1 AXE: Additional Support Opportunity Add a module...

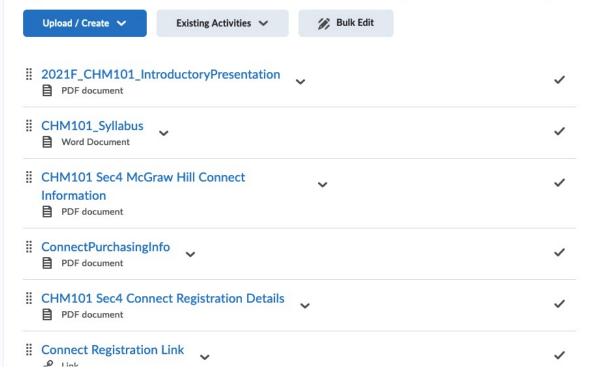
Welcome to CHM 101!

CHM 101 is a general chemistry course designed to introduce a variety of concepts and principles that are fundamental to the study of chemistry. Significant emphasis will be placed on mathematical skills and problem solving.

We will go over the information in the introductory presentation on the first day of class, but it is also included here as a reference.

The syllabus provides important information about course policies and requirements. Make sure to read this document carefully and let me know if you have any questions about the content.

The additional documents provide information about textbook/access code purchasing options, the registration link and information for the Connect online homework system that we will be using

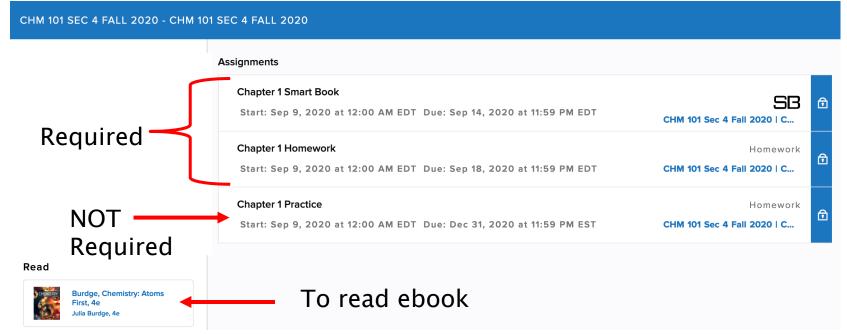


Course Organization & Expectations

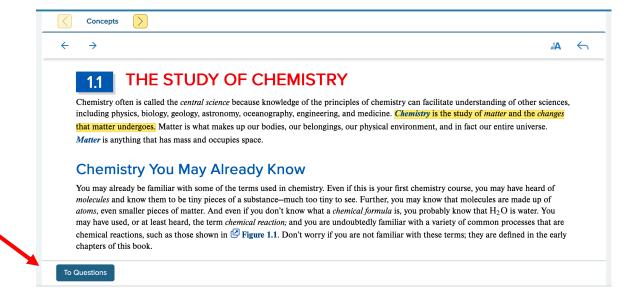
Homework

- Homework will be completed and submitted through the McGraw Hill Connect online homework program
- There are two types of homework, one of each per chapter
 - Homework assignments
 - Ten points per question
 - · Best to complete after attending lecture on material
 - Can be submitted late automatically with 2% per day loss of credit
 - Smart Book assignments
 - 100 points each, graded based on completion
 - Assigned toward the beginning of the chapter as an introduction to the material – essentially these are your "read the chapter" assignments
 - Have been set to accept late submissions if this does not work email me to request an extension
- There will also be **OPTIONAL** practice assignments with additional questions.

Connect Assignments

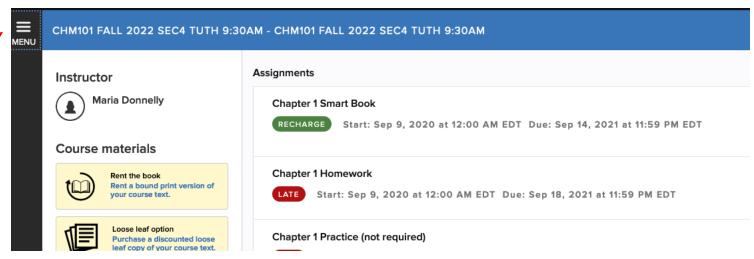


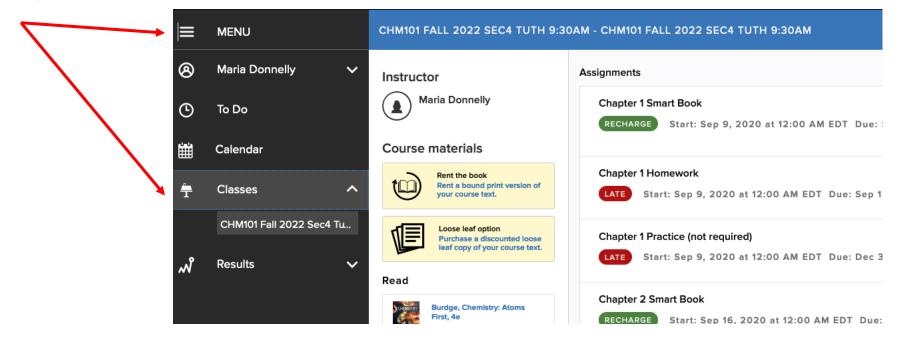
Questions in Smart Book assignments are required. All questions must be answered to receive full credit.





To get to full list of assignments (rather than just those with due dates in the near future).





Connect Registration

Registration Information is section specific!

CHM101 Fall 2023 Sec4 TuTh 9:30am





Burdge, Chemistry: Atoms First, 4e

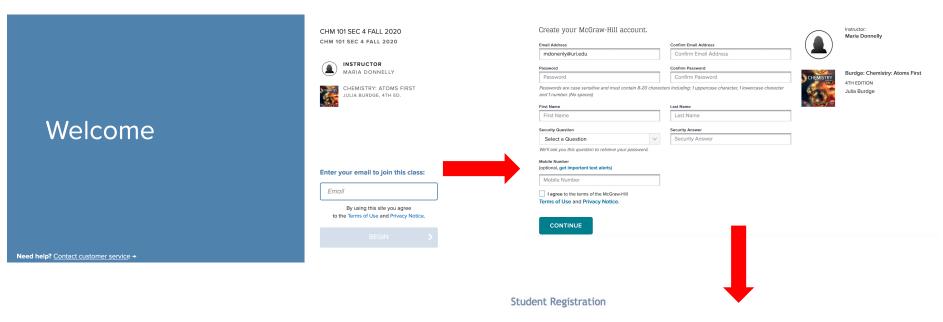
Burdge, 4e

CHM101 Fall 2023 Sec4 TuTh 9:30am

Registration info: 09/01/23 - 12/12/23

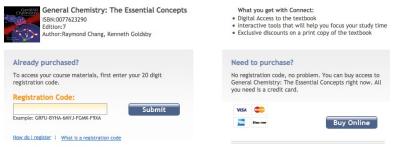
There is a link to your section's registration page in Brightspace.

Connect Registration



A two week courtesy access is available if you cannot immediately purchase an access code.

Register & start work right away!



(Older screenshot, looks a little different now)

Need Temporary Access?

You can get two week access to your After that your work will be aved and you can purcha access.

Start courtesy access

Course Organization & Expectations

Exams

- Exams will be held in Beaupre 100 at the scheduled class time.
 - Dates are in the syllabus and the schedule in this presentation
- You will be assigned a seat for your exams
 - When you arrive, your exam will be waiting for you at your seat with your name on it
 - Leave your bag at the front, take your calculator and something to write with, and begin your exam
- Calculators with advanced functions (able to read pdf files, access the internet, etc.) cannot be used on exams.
- There will be four in-class exams and one final exam
 - To eliminate the need for make-up exams, if you miss an inclass exam, your final will count twice in place of the missed exam.
- If you feel there is an error in the grading of your exam, you must bring this to my attention within 48 hrs of the graded exam being returned to you. No grade changes will be considered after this time

General Course Schedule

Chapter	Title	Week/Date	
1	Chemistry: The Science of Change		
2	Atoms & the Periodic Table	1–4	
3	Quantum Theory & The Electronic Structure of Atoms		
4	Periodic Trends of the Elements		
Exam 1	Chapters 1-4	Tuesday Oct. 3 rd	
5	Ionic & Covalent Compounds		
6	Representing Molecules	5-7	
7	Molecular Geom., Intermolec. Forces, & Bonding		
Exam 2	Chapters 5-7	Thursday Oct. 26th	
8	Chemical Reactions		
9	Chemical Reactions in Aqueous Solutions	8-11	
10	Energy Changes in Chemical Reactions		
Exam 3	Chapters 8-10	Thursday Nov. 16 th	
11	Gases	12-14	
12	Liquids & Solids	12-14	
Exam 4	Chapters 11-12	Tuesday Dec. 12th	
**Final Exam: Thursday December 14th 8:00 - 10:00am			

** Final exam dates are set by the University and are subject to change

Important Fall 2023 Semester Dates:

- Wednesday Sept. 27th last day to drop courses with no transcript designation of "W"
- Monday Oct. 9th Columbus/Indigenous People's Day, classes do not meet
- Tuesday Oct. 10th Monday classes meet to make up for Columbus Day
- Wednesday Oct. 19th Last day to drop classes in ecampus (after this date, a form is required that must be signed by your Academic Dean)
- Tuesday Oct. 24th Freshmen Mid-Term grades due at noon
- Monday Nov. 13th Veterans Day Observed, classes do not meet
- Thursday Nov. 23rd Sunday Nov. 26th Thanksgiving Recess
- Tuesday Dec. 12th last day of classes
- Thursday Dec. 28th final grades due in ecampus at noon

Course Organization & Expectations

Grading

Online Homework, Smart Book, & Attendance Quizzes	15 %
4 Semester Exams* (17 % each)	68 %
Final Exam	17 %
Total	100%

 Your final course average will be calculated using the following formula:

Course Avg. = (Homework Avg. \times 0.15) + (Exam Avg. \times 0.85)

- The homework average includes homework assignments, smart book assignments, & attendance quizzes
 - Each homework assignment counts for a given number of points based on the number of questions
 - Each Smart Book assignment counts for 100 points
 - Each attendance quiz counts for 20 points
 - HWK Avg.=(pts. earned/total # of pts possible)*100

Incomplete Policy

Incomplete grades <u>cannot</u> be assigned except in the case of a real emergency. In order to receive an incomplete, a student's course 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 either the two year grade change deadline established by the University, or the student's expected graduation date, whichever is earlier, 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.

Be Courteous to Your Classmates

- If you arrive late/need to leave early, use the back entrance
- Your peers can be a great resource, but please wait till after lecture to talk with them/ask them questions
- Give everyone a chance to answer
- Remember why you are here
 - TV shows, games, movies, & social media will not help you learn
 - they are also visible to the students sitting behind you & can be quite distracting

Getting Help

Make sure to seek help right away if you feel you are struggling with material

- Office hours
 - Use Starfish to sign up for a time (or just stop by!)
 - Starfish appointments should be made 24 hours in advance
 - Beaupre 117C is in the corridor inside room 115
 - Appointments are not required, but those with appointments receive priority for their scheduled time.
 - Can also email questions
- Chemistry department TAs also hold office hours
 - Held in Beaupre 115
 - Can ask any 102 TA for help
 - Also three CHM 101 TAs
 - Audreyana, Maddy, & Subarna
 - Link to the TA office hour schedule will be posted in Brightspace as soon as it is available.
- AEC also offers tutoring (www.uri.edu/aec)

I am happy to help!!!



Your choices will determine your level of success

Attendance is important

- prepare in advance become familiar with key terms & ideas
- pay attention, ask me questions
- print out slides and bring them with you to take notes on

Assignments are designed to help you learn

- focus on WHY you need to follow certain steps to solve problems rather than trying to memorize the steps
- ask yourself what you do and do not understand

• Complete assignments on time

- mastery of early material will help with material covered later
- avoid having assignments build up & losing points due to lateness

Seek help right away!

- office hours
- TAs in Beaupre 115 Learning Center
- AEC tutoring group or walk in tutoring