

Fall 2024

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 9/4 Experiments Start Tuesday 9/10

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!

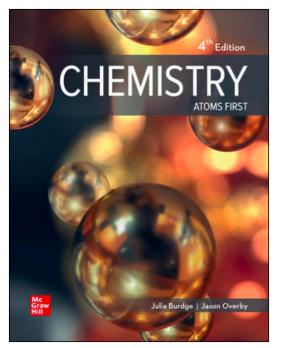
This first week, your TA will cover important information about safety training and lab & department policies. If you missed lab this week, try to attend another session in your normal lab room today or tomorrow.

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

Course Organization & Expectations

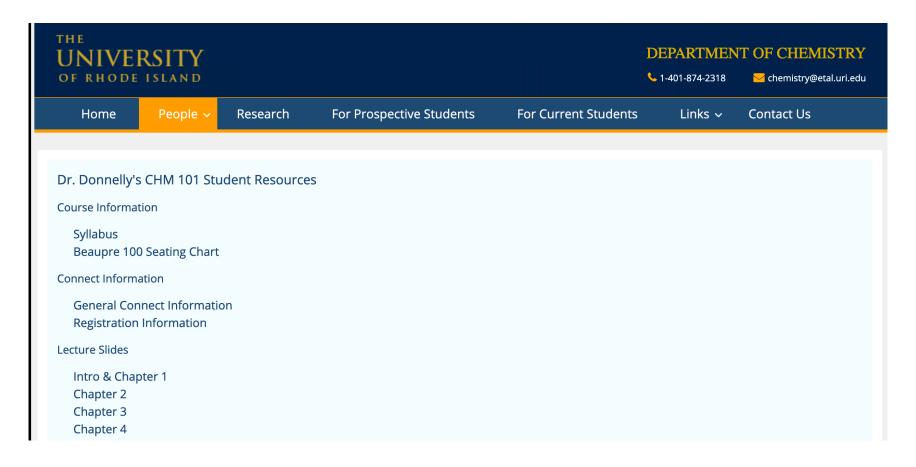
Required Materials

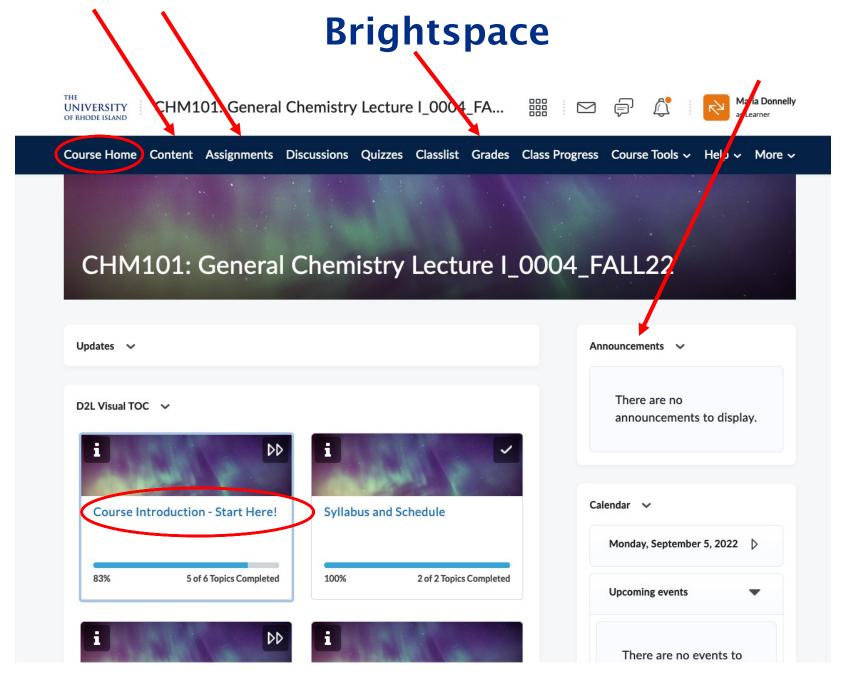
- Book: Chemistry: Atoms First 5th edition
 - By Julia Burdge & Jason Overby
 - Published by McGraw Hill
 - Can use either paper or electronic
 - Access to Aleks online homework
 - Chapter Intro assignments
 - Homework assignments
 - Scientific calculator
 - Brightspace/URI email
 - Gradebook
 - Announcements
 - 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

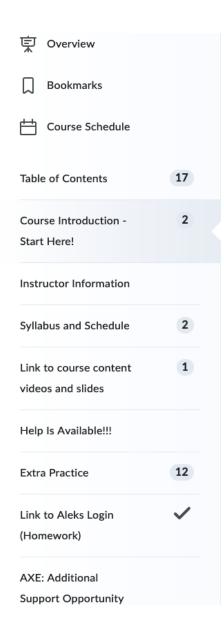
Useful Information: lecture notes, old videos from remote learning, etc. available on course resources site





Announcements - might need to opt in for emails!

Brightspace



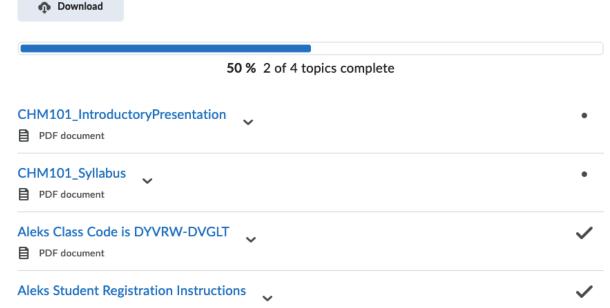
Welcome to CHM 101!

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 Aleks online homework program
- There are two types of homework, one of each per chapter
 - Chapter Intro Assignments
 - An introduction to the chapter questions on basic information such as key terms
 - "Read the chapter" assignments
 - Due before or near the start of each chapter
 - Homework assignments
 - Ten points per question
 - Best to complete after attending lecture on material
 - Chapter Intro & Homework assignments are graded the same way
 - Ten points per question
 - Can be submitted late automatically with 1% per day loss of credit

Aleks Registration

https://www.aleks.com/highered/math/HE Student Registration No Access Code.pdf

Aleks Class Code for Fall 2024: DYVRW-DVGLT Class Name: CHM 101 Sec 1 TuTh 9:30am

Student Registration Instructions

Before you begin, you will need a 10-character Class Code.

For assistance during registration, please contact ALEKS Customer Support at http://support.aleks.com.

Step 1: Go to <u>www.aleks.com</u> and select **SIGN UP NOW!** under the Registered Users box.



Step 2: Enter the 10-character class code provided by your instructor and click **Continue.**



Step 3: Verify your enrollment information. If it is incorrect, check your class code and click on (Modify) to make any corrections. If your information is correct, click on Continue.



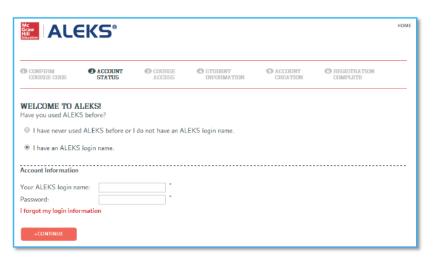
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Step 4: Select whether or not you have used ALEKS before and click on Continue.

If you have used ALEKS before, you will be prompted to enter your existing login and password. You can retrieve your login information by clicking on I forgot my login information.



Step 5: If you entered your existing ALEKS account information in Step 4, you will be prompted to verify your email address at this time.

Otherwise, complete the registration steps to create a new ALEKS account and click on **Continue**.

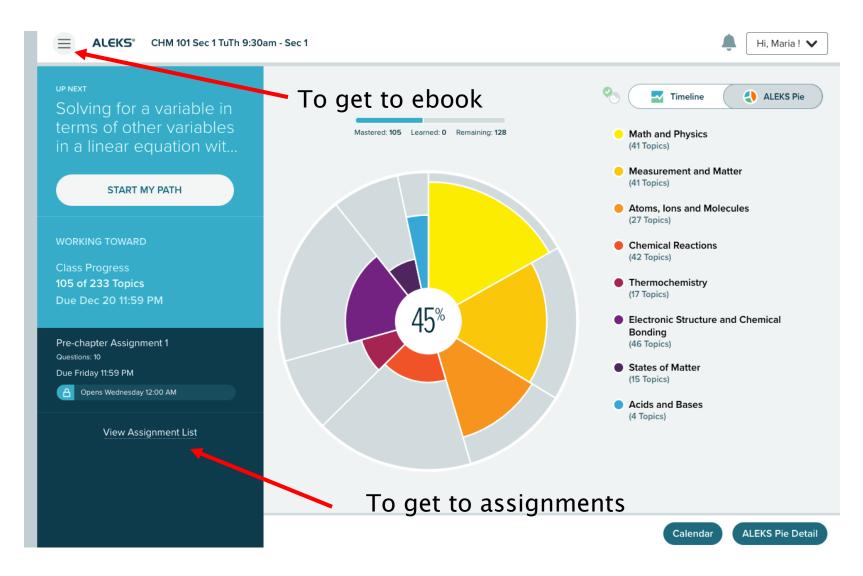
A confirmation email will be sent to the email address you provided.

IMPORTANT: Be sure to save your new login information!

Step 6: Once your registration is complete, you will be in your ALEKS class and can begin with the Answer Editor Tutorial. Please see Appendix B to learn more about managing your ALEKS account.

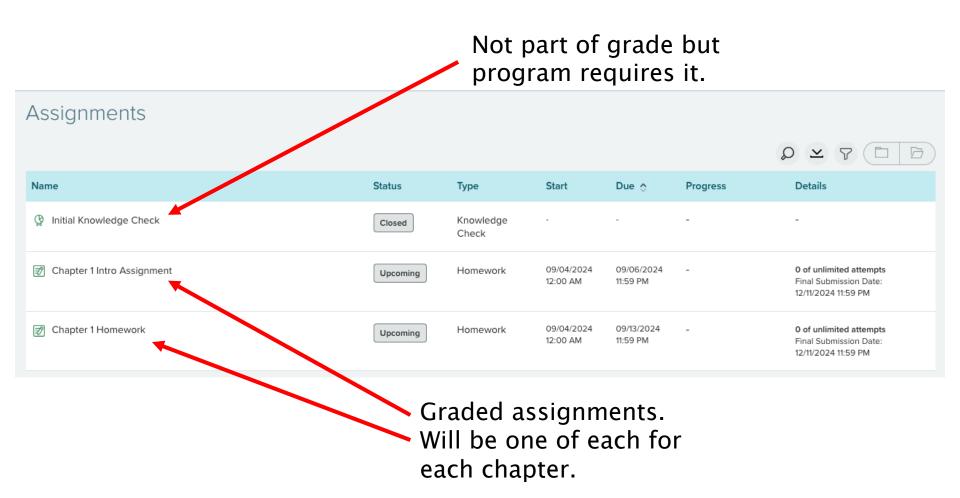
Aleks Assignments

Will make you go through a tutorial and a knowledge check when you first enter the course site.



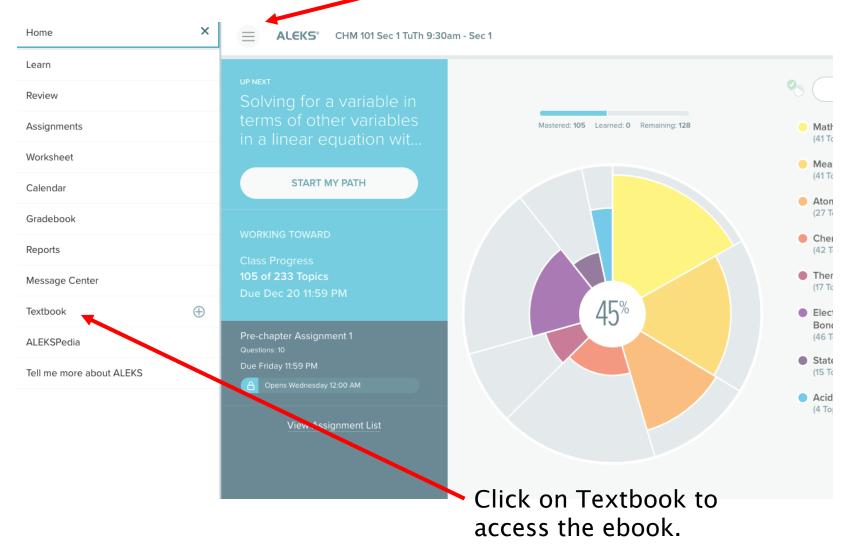
Aleks Assignments

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Aleks eTextbook

Clicking on the box of lines opens the menu on the left



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
 - There will be four in-class exams and one final exam
- 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.
- 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.

Missed Exams

- To eliminate the need for make-up exams, if you miss an in-class exam, your final will count twice in place of the missed exam.
 - Make-up exams generally do not help students, so this policy is strongly recommended.
- If you will miss an exam for a school sanctioned event you must contact me in advance. You are eligible to take the exam in the Testing Center, but date options are limited so advance notice is required. Without advance notice, the final will count twice.
- Official documentation is required to request a make-up exam.
 - Documentation must explicitly cover the date of the exam and must state that the student is UNABLE to attend class on that date.
 - Health Services stated policy is that they do not provide doctors notes.
 - Per the University Manual, make-up exams must be requested within 7 calendar days of the absence. Requests must be made in writing via email and must include appropriate documentation.
 - All make-up exams will be held on the last day of classes (Wednesday 12/13) so that all students can take their make-up on the same day.
 - Make-up exam cancellations must be made via email no later than one week before the make-up exam date.
 - If you request a make-up exam but do not show up to take the make-up exam, you will receive a zero for that exam.
 - A second missed exam will require University documentation.

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. 1st		
5	Ionic & Covalent Compounds			
6	Representing Molecules	5-7		
7	Molecular Geom., Intermolec. Forces, & Bonding			
Exam 2	Chapters 5-7	Thursday Oct. 24 th		
8	Chemical Reactions			
9	Chemical Reactions in Aqueous Solutions	8-11		
10	Energy Changes in Chemical Reactions			
Exam 3	Chapters 8-10	Thursday Nov. 14 th		
11	Gases	12-14		
12	Liquids & Solids	12-14		
Exam 4	Chapters 11-12	Tuesday Dec. 10 th		
**Final Exam: Thursday December 19 th 8:00 - 10:00am				

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

Important Fall 2024 Semester Dates:

- Wednesday Sept. 25th last day to drop courses with no transcript designation of "W"
- Monday Oct. 14th Columbus/Indigenous People's Day, classes do not meet
- Tuesday Oct. 15th Monday classes meet to make up for Columbus Day
- Friday Oct. 18th Last day to drop classes in ecampus (after this date, a form is required that must be signed by your Academic Dean)
- Friday Oct. 25th Freshmen Mid-Term grades due at noon
- Tuesday Nov. 5th Election Day, classes do not meet
- Wednesday Nov. 6th Tuesday classes meet to make up for Election Day
- Monday Nov. 11th Veterans Day, classes do not meet
- Wednesday Nov. 27th Sunday Dec. 1st Thanksgiving Recess
- Wednesday Dec. 11th last day of classes
- Friday Dec. 27th final grades due in ecampus at noon

Extended Course Schedule

Date	Day	Chapters & Assignments
9/2	М	
9/3	Tu	
9/4	W	
9/5	Th	Intro & CH 1
9/6	F	CH 1 Intro Assignment due
9/9	М	
9/10	Tu	CH1
9/11	W	CH 2 Intro Assignment due
9/12	Th	CH 1 & CH 2
9/13	F	CH 1 HW due
9/16	М	CH 3 Intro Assignment due
9/17	Tu	CH 2 & CH 3
9/18	W	CH 2 HW due
9/19	Th	CH 3 & CH 4
9/20	F	
9/23	М	CH 4 Intro Assignment due
9/24	Tu	CH 4
9/25	W	CH 3 HW due
9/26	Th	CH 4
9/27	F	
9/30	М	CH 4 HW due
10/1	Tu	Exam 1: CH 1 - 4
10/2	W	
10/3	Th	CH 5
10/4	F	
10/7	М	CH 5 Intro Assignment due
10/8	Tu	CH 5
10/9	W	
10/10	Th	CH 5 & CH 6
10/11	F	CH 5 HW due
10/14	М	Columbus/Indigenous People's Day
10/15	Tu	No Class: Monday classes meet
10/16	W	CH 6 Intro Assignment due
10/17	Th	CH 6 & 7
10/18	F	CH 6 HW due

Date	Day	Chapters & Assignments
10/21	М	CH 7 Intro Assignment due
10/22	Tu	CH 7
10/23	W	CH 7 HW due
10/24	Th	Exam 2: CH 5 - 7
10/25	F	
10/28	М	CH 8 Intro Assignment due
10/29	Tu	CH 8
10/30	W	
10/31	Th	CH 8 & CH 9
11/1	F	CH 8 HW due
11/4	М	CH 9 Intro Assignment due
11/5	Tu	No Class: Election Day
11/6	W	Tuesday Classes Meet!!! CH 9
11/7	Th	CH 9
11/8	F	
11/11	М	Veterans Day
11/12	Tu	CH 9
11/13	W	CH 9 HW due
11/14	Th	Exam 3: CH 8 - 9
11/15	F	
11/18	М	CH 10 Intro Assignment due
11/19	Tu	CH 10
11/20	W	
11/21	Th	CH 10
11/22	F	CH 11 Intro Assignment due
11/25	М	CH 10 HW due
11/26	Tu	CH 11
11/27	W	Thanksgiving recess
11/28	Th	No Class: Thanksgiving
11/29	F	Thanksgiving recess
12/2	М	CH 12 Intro Assignment due
12/3	Tu	CH 11 & 12
12/4	W	CH 11 HW due
12/5	Th	CH 12
12/6	F	CH 12 HW due Mon 12/9
12/10	Tu	Exam 4 Chapters 10-12

Note that homework due dates may change see Aleks for the most current due dates.

Course Organization & Expectations

Grading

Online Chapter Intro & Homework Assignments & 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 the Chapter Intro & Homework assignments on Aleks & attendance quizzes
 - Each Chapter Intro & Homework assignment counts for a given number of points based on the number of questions. Each question is worth 10 points.
 - Each attendance quiz counts for 20 points
 - HWK Avg.=(pts. earned/total # of pts possible)*100

Incomplete Policy

Incomplete grades will only be assigned 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 within two years, or prior to the student's expected graduation date or departure from the University, 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.

According to the University manual, arrangements to resolve an incomplete must be made by the midsemester following the semester in which the incomplete was received (for undergraduates). If a student fails to make such arrangements, the incomplete may be changed as early as the end of the semester following the semester in which the incomplete was received.

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

Continued enrollment in this class indicates that you understand and agree to the course policies as described in the syllabus.

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 two CHM 101 TAs
 - Maddy & Maggie
 - 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