CHM1025 INTRODUCTION TO CHEMISTRY

FALL 2025 CLASS NUMBERS: 10556, 10557, 10884, 16103

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INSTRUCTOR INFORMATION

Instructor	Email	Office Location & Hours
Dr. Stacey-Ann Benjamin LEI 406 352-294-3435	Email in Canvas only benjamin@chem.ufl.edu (for administrative purposes only)	Virtual Office Hours via Zoom Tuesdays Per 3 (9:35 am – 10:25 am) Thursdays Per 7 (1:55 am – 2:45 pm) Wednesdays 7:00 pm – 8:00 pm Email only; calls or voice messages may not be returned as class is online

TEACHING ASSISTANTS / UNDERGRADUATE TAs

Graduate Teaching Assistants	Email	Office Location & Hours
Usama Zafar Athar	Email in Canvas only	Virtual Office Hours via Zoom
Nariman Neekzad		TBA
Undergraduate TAs		
TBA		Virtual Office Hours via Zoom TBA

GENERAL INFORMATION

COURSE DELIVERY / MEETING TIMES

The course is 100% online/asynchronous. Students read the text material and watch recorded lecture videos such that they keep up with the posted course schedule. Office hours are scheduled regularly during which time students may attend and ask course-related questions. Outside of office hour times, students can post questions to the course Discussion Boards or use Canvas email.

COURSE Fees

Additional Course fee: $23.03

COREQUISITES

MAC1147 or the equivalent is a published co-requisite. Refer to the Course Catalog for math requirements to continue in general chemistry sequence. The math requirement of a C or higher in MAC1147 or the equivalent or higher is strictly enforced for CHM2045. A C or higher in CHM1025 is also required for

progression to CHM2045, no matter the ALEKS math placement score. If you have any questions about progression to CHM 2045, please email your instructor.

COURSE DESCRIPTION

Introductory readiness course in general chemistry for those with weak but satisfactory backgrounds in high school chemistry and algebra. This course affords students the ability to critically examine and evaluate the principles of the scientific method, model construction, and use the scientific method to explain natural experiences and phenomena. (P)

STUDENT LEARNING OUTCOMES

At the end of this course, students will be able to:

1. Interpret tables of data and graphs of various forms, and students will be competent in using mathematics to solve problems in chemistry.
2. Describe properties, changes, and types of matter, as well as the key components of the scientific method.
3. Understand concepts related to atomic and molecular structure, and relationships between heat and energy.
4. Describe the basic model of the atom, quantum theory, and write electron configurations for atoms and ions.
5. Characterize a compound as ionic or molecular including being able to predict formulas for, and naming ionic compounds, molecular compounds, and molecular acids.
6. Write and balance chemical equations, and classify reaction types
7. Use the concept of the mole in quantitative calculations including mass and solution stoichiometry
8. Clearly communicate in writing information derived from course related readings about the major concepts and themes in the chemical sciences

FIRST DAYS

Log into Canvas and access the course. You should check daily for new *Announcements* and/or emails containing important information and reminders. Click on the *Syllabus* tab to review the due dates for all assignments for the entire term. Click on *Modules* and read all the information under the *Settling In* section. Many of your questions are answered in the *Settling In* section including: Which types of calculators are approved? What is Honorlock? What is Achieve? How do you get help? Can assignments be submitted late? What does the formula sheet for an exam look like?

GENERAL EDUCATION OBJECTIVES AND LEARNING OUTCOMES

Primary General Education Designation: Physical Sciences (P) (area objectives available here)
A minimum grade of C is required for general education credit. Courses intended to satisfy the general education requirement cannot be taken S/U.
Physical science courses provide instruction in the basic concepts, theories and terms of the scientific method in the context of the physical sciences. Courses focus on major scientific developments and their impacts on society, science and the environment, and the relevant processes that govern physical systems. Students will formulate empirically-testable hypotheses derived from the study of physical processes, apply logical reasoning skills through scientific criticism and argument, and apply techniques of discovery and critical thinking to evaluate outcomes of experiments.

The course objectives align with the UF General Education student learning outcomes and physical science area learning outcomes:

General Education SLO	Physical Science SLO	Course Objective Alignment	Assessment
Content	Identify, describe, and explain the basic concepts, theories and terminology of natural science and the scientific method; the major scientific discoveries and the impacts on society and the environment; and the relevant processes that govern biological and physical systems.	Objectives 1-8	All assessments and student practice assignments offer opportunities for students to demonstrate content knowledge.
Critical Thinking	Formulate empirically-testable hypotheses derived from the study of physical processes or living things; apply logical reasoning skills effectively through scientific criticism and argument; and apply techniques of discovery and critical thinking effectively to solve scientific problems and to evaluate outcomes.	Objectives 1-8	All assessments and student practice assignments offer opportunities for students to demonstrate content knowledge.
Communication	Communicate scientific knowledge, thoughts, and reasoning clearly and effectively.	Objective 8	Communication assignments.

COURSE LEARNING OUTCOMES

A complete list of student learning outcomes is posted in Canvas, organized by module/chapter.

COURSE MATERIALS

TEXTBOOK (ONLINE EBOOK WITH HW; REQUIRED IN FULL)

A significant portion of your grade stems from electronic coursework (Achieve) associated with an eBook (*Introductory Chemistry*, Revell, 2nd ed., Macmillan Learning).

This course is participating in UF All Access. Beginning the first day of the semester students can opt in to consent to have the purchase price charged to your student account. Alternatively, you can purchase an access code for the materials at the UF Bookstore.

To opt in, navigate to: https://bsd.ufl.edu/allaccess. Click the "Opt In" tab or view the "View Eligible UF All Access Classes" button. You will be prompted to log in using Gatorlink credentials. Follow the prompt to authorize charges to your student account. The access code will then be provided. Copy the access code to your clipboard. In the Canvas course, click on 'Macmillan Learning' from the navigation bar then provide the access code when prompted to do so. If you have any questions about the authorization process or refunds contact allaccess@bsd.ufl.edu.

A paperback version of the text is completely optional. The bookstore may stock paper versions of the text, or you can order one directly through Macmillan Learning.

See the Achieve Information module in Canvas (Modules>Achieve Information) for instructions on viewing the textbook and videos on general navigation tips within the Achieve platform.

CALCULATORS

A nonprogrammable, scientific calculator is required for this course. Calculators are allowed during exams but may NOT be shared. Graphing and programmable calculators are NOT permitted during exams. Cell phones and other electronic devices may NOT be used during exams for calculations or any other reason.

WEBCAM/MICROPHONE/SPEAKERS

You are required to have a functioning webcam, microphone, and speakers for proctored exams. See the technical requirements at honorlock.com/support. Verify that your operating system is compatible with Honorlock.

COURSE TECHNOLOGY

The student may require Adobe Acrobat Reader, Adobe Flash Player, Microsoft Silverlight and other software. You may wish to use Microsoft Excel or Word for written assignments. Free tutorials on many software applications can be found at Lynda.com. All UF students are expected to have reliable access to a computer, especially for an online course. Honorlock has specific hardware/software requirements: honorlock.com/support. Check the support page for Achieve for technical support using their platform: https://store.macmillanlearning.com/us/content/get-help.

COURSE COMMUNICATIONS

GENERAL QUESTIONS

General course questions should be posted to the General Help Forum in Canvas. The instructor response time is 24-48 h during the work week (expect to wait until Monday for questions posted on a Friday). Chapter-specific questions should be posted to the appropriate Study Room; participation in the Study Rooms is for credit.

I encourage you to post questions related to Achieve homework or end of chapter questions you're working on to the Q&As. The homework is not meant to be a test, it's a learning tool. For the best response, take a screenshot of your question and/or the solution you propose. The more information you provide, the easier it is for your instructor/another student to help.

PRIVATE OR GRADE-RELATED QUESTIONS

Direct these to your instructor via the mail function in Canvas. Do not email outside of Canvas to your instructor's external email address – we request that all course communication be conducted through Canvas messaging.

AUDIO/VIDEO PRESENCE POLICY

As in all courses, unauthorized recording and unauthorized sharing of recorded materials are prohibited. Full audio and video presence are required for proctored tests administered by Honorlock.

Zoom office hours with the instructor and/or TAs are not generally recorded. Should it be necessary to record a session, an announcement will be made in advance. Students who participate with their camera engaged or utilize a profile image agree to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during sessions and participate verbally agree to have their voices recorded.

If you are not willing to consent to have your voice recorded, you will need to keep your mute button activated and communicate exclusively using the 'chat' feature, which allows students to type questions and comments live. The chat will not be recorded or shared.

ASSIGNMENT/ASSESSMENT POLICIES

ORIENTATION QUIZZES (CANVAS)

Orientation Quizzes (Syllabus Quiz, Netiquette Quiz, Quiz about Exam Policies) will be administered in Canvas. You can submit these assignments late, with a 20% penalty per day submitted late. Make sure to open and submit the quizzes *for all attempts* prior to the due date to avoid the late penalty. Note that even 1 second past the due date counts as an entire day late.

SURVEYS (ACHIEVE)

An initial Math-Up Skills Test (MUST) and Achieve Orientation assignment; along with course surveys will be administered in Achieve, your online Homework/Quiz system. Graded quizzes can be submitted up to five days past the deadline for reduced credit with a 20% penalty per day submitted late. The last possible date any quiz can be completed for credit is the last day of term, 11:59 pm December 3rd.

ADAPTIVE CHAPTER REVIEW ASSIGNMENTS (ACHIEVE)

Access the adaptive chapter review assignments directly from within Canvas by selecting Macmillan Learning from the navigation bar. Each assignment is also deep-linked in its corresponding Module in Canvas.

Adaptive assignments mimic a game-like environment that provides individualized question sets that help students solidify their foundational knowledge using an algorithm that provides more practice in areas where students are weakest. Students can utilize hints, links to the eBook, and feedback based on responses to questions.

Each is set with a due date and it is recommended to complete each prior to completing the corresponding homework and quiz to review/prepare/assess readiness.

To earn any credit for adaptive assignments, students must complete the **entire** activity. To earn full credit, the student must complete the **entire** activity by the due date. The completed activity can be submitted up to ten days past the deadline for reduced credit with a 20% penalty per day submitted late. The last possible date any assignment can be completed for credit is the last day of term, 11:59 pm December 3rd. Note that if an assignment is submitted even 1 s after the due date/time, the late penalty will apply. There is no partial credit for an incomplete assignment.

The one lowest adaptive assignment score is dropped from your overall course grade.

HOMEWORK WITH AI TUTOR (ACHIEVE)

Chapter homework assignments are delivered in Achieve and are designed to help students refine their understanding as they prepare for exams in the course. Access the electronic homework and eBook directly from within Canvas by selecting Macmillan Learning from the navigation bar. Each assignment is also deep-linked in its corresponding Module in Canvas. Each chapter homework this semester is equipped with an 'AI-powered personalized tutor that will support students when, where, and how they need it most in an effort to enhance self-study into a deeper dialogue for deeper learning' – Macmillan Learning.

It is recommended that you watch the corresponding lecture videos and complete the adaptive chapter review assignments prior to attempting each homework assignment. When you're ready to begin, simply click each homework link in its corresponding Module in Canvas. The time required to complete homework assignments will vary by student. An estimate is 45 min – 2 h each.

Each homework assignment has an established due date but can be submitted up to five days past the deadline for reduced credit with a 20% penalty per day submitted late. The last possible date any homework assignment can be completed for credit is the last day of term, 11:59 pm December 3rd. Note that if a submission is even 1 s after the due date/time, the late penalty will apply.

The one lowest quiz scores are dropped from your final course grade.

CHAPTER QUIZZES (CANVAS)

Sectional quizzes are delivered in Canvas. These quizzes are not proctored, but are timed, and are subject to the Honor Code. When you're ready to begin, simply click the link. You will have two attempts at each quiz, with the highest score counting for credit. See the Quizzes page in the *Settling In* section for details on what is covered on each quiz.

It is not possible for us to open a quiz for review purposes if you do not open the quiz before the posted due date in Canvas. We encourage you to open each quiz twice for review purposes even if you are satisfied with your score on the first attempt.

Graded quizzes can be completed late, with a late penalty of 20% per day submitted late, with the last possible date a quiz can be completed for any credit being the last day of term, 11:59 pm December 3rd. Note that if a quiz is submitted even 1 s after the due date/time, the late penalty will apply. Ensure you openand submit the quiz for both of your attempts prior to the due date to avoid the late penalty.

The one lowest quiz score is dropped from your final course grade.

ADDITIONAL PRACTICE INTERACTIVES (ACHIEVE)

Additional Practice Interactives are designed to help you grasp the key concepts and techniques for foundational chemistry skills. To be successful in chemistry, there are key concepts and information that students need to know so well that they become part of natural language and automatic. These interactives helps to reinforce knowledge in foundational areas for example, metric prefixes and naming compounds.

You may access additional practice activities directly from within Canvas by selecting Macmillan Learning from the navigation bar. Each assignment is also deep-linked in its corresponding Module in Canvas. Interactives are not graded, but students are strongly encouraged to complete them.

EXAMS (CANVAS)

Three progress exams and one cumulative final exam are administered in Canvas. These exams are remotely proctored by Honorlock. Each exam is 90 minutes in duration with an additional 30 minutes added to the testing time to account for any potential technical (Honorlock, connectivity, etc.) issues you may experience while taking the exam. Due to the nature of this course's content, the topics tested on each progressive exam are cumulative so questions may include previously covered concepts which the student is expected to have already mastered. You must use a non-graphing non-programmable scientific calculator on exams (with log, ln, root, and exponent (scientific notation) functions). Each progress exam is officially scheduled to occur between 8:20-10:20 pm EST. Exam dates are:

Exam 1: September 23rd **Exam 2: October 21st** **Exam 3: November 17th**

The final exam is scheduled for Saturday, December 6th

These are assembly during term exams, and take scheduling priority over other exams and classes you may be enrolled in.

Exam questions may include numeric entry, formula/algorithmic questions, multiple dropdown, matching, multiple answer, multiple choice, and multiple fill in the blank questions.

PROGRESS EXAM "AVERAGE/REPLACE" POLICY

This applies to all students. No progress exam score will be dropped for any reason. To alleviate the stressof potential issues that do not fall under officially sanctioned absences, we have incorporated an "average/replace' policy: the lowest of the three progress exams will be replaced by the average of the three progress exams. This policy helps to minimize the impact of a single poor performance (it will not disappear, but will be minimized). For example, if a student scores the following on their three progress exams: 0%, 65%, 80%, the 0% would be replaced with the average of 0, 65 and 80, which is 48%. That is a much better score than a 0.

HONORLOCK

Honorlock will proctor your exams this semester. You do not need to create an Honorlock account, download software, or schedule an appointment for your exam. Honorlock is available 24/7 and requires acomputer, webcam, microphone, and a stable internet connection.

To get started, you will need Google Chrome and to download the Honorlock Chrome Extension. You can download the extension at www.honorlock.com/extension/install.

When you are ready to test, log into Canvas, go to your course, and select your exam. Click "Launch Proctoring" to begin the Honorlock authentication process, during which you will take a picture of yourself and show your ID. Honorlock will record your exam session and record your screen. Honorlock also has an integrity algorithm that can detect search-engine use, so please do not attempt to search for answers, even if it's on a secondary device.

Honorlock support is available 24/7/365. If you encounter technical difficulties with Honorlock, contact Honorlock directly. You may live chat, phone (855-828-4004) and/or email support@honorlock.com. You should spend some time reading about their service and testing your system on their website at https://honorlock.com/support/. For other technical issues contact the Help Desk.

To help you prepare for an exam proctored by Honorlock, please read: https://dce.ufl.edu/media/dceufledu/pdfs/Honorlock-Student-Exam-Preparation-Information.pdf

A Honorlock student privacy guide is available at:https://honorlock.com/student-privacy-statement/

QUIZ/EXAM QUESTION DISPUTES

If you believe you have found an error on a quiz/exam or would like to dispute a question, the deadline fordoing so is within 72 h of a quiz/exam or 24 h after the final exam. Email your instructor through Canvas email or make a submission comment on the quiz/exam.

COURSE POLICY

ATTENDANCE, EXTENSION REQUESTS

Note that all due dates for assignments are clearly posted in the course assignments of the Canvas page and reflect the most up-to-date information. The deadline for assignments is 11:59 p.m. on the day stated on the lecture schedule. All assignments/quizzes must be completed by the stated due date and time for credit. Extensions for assignments can be requested due to illness or emergent situations.

You will be asked to have your situation verified by the Dean of Students Office before such an extension is considered. Information on requesting an excuse note can be found here: https://care.dso.ufl.edu/instructor-notifications/

A Dean of Students note verifying documentation of illness or a personal matter must be provided for at least 50% of the days allocated for completion of the assignment (for example, if the duration of a Module is six days, documentation of illness or a personal matter should be provided for at least three of those days) for accommodations to be considered. Extensions will NOT be given because of technical or personal issues that occur within 24 hours of the assignment deadline.

Requirements for class attendance and make-up exams, assignments, and other work in this course areconsistent with university policies that can be found at: https://catalog.ufl.edu/UGRD/academic- regulations/attendance-policies/

Exam absences will be handled in accordance with official UF academic regulations. For more information,see https://catalog.ufl.edu/UGRD/academic-regulations/. See below for further clarification for two different types of situations.

(1) Conflicts with other events: this should be rare, as CHM1025 proctored exams are available over a rangeof times and are considered evening assembly exams and thus take priority over other

examinations. You should plan accordingly. Such reasons may include religious holidays, military obligations, special curricularrequirements (e.g., attending professional conferences), or participation in official UF-sanctioned activities such as athletic competitions, etc. For more information on such absences see the official UF Policy at https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/#absencestext). If you must be absent for an exam due to a documented and approved conflict known in advance, you must e-mail your instructor (within Canvas) the documentation at least one week prior to the scheduled exam and an **early conflict exam** (i.e. before the regular exam date) will be scheduled for you.

(2) Missing an exam due to an emergency or sudden illness: If you are absent for an exam due to an unpredicted documented medical reason or family emergency, you must contact the instructor as soon as possible, and you may be asked to have your excuse verified by the Dean of Students Office (DSO). Your instructor will follow UF academic regulations in evaluating the notification and/or documentation received from you or from the DSO on your behalf. Once your instructor is satisfied with the validity of your exam absence a make-up exam will be scheduled after a reasonable amount of time, i.e., before the end of the semester. If your documentation is deemed insufficient to excuse your absence you will receive a zero on the missed exam.

GRADING

GRADE POLICY

There is no extra credit available for this course beyond the generous dropped assignment policy. Exam grades or course grades are not curved. Course grades are firm. Take care to complete each assignment prior to its advertised due date and to submit assignments as directed. Contact the UF Help Desk for help with Canvas.

Please refer to the catalog for UF grading policies for assigning grade points: https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/. A minimum grade of C is required for general education credit. Courses intended to satisfy the general education requirement cannot be taken S/U.

Assignments weights are as follows:

Assignment Group	Weight %
Homework	10%
Quizzes	10%
Adaptive Chapter Review Assignments	5%
Progress Exams (3 @ 17% each; consider average/replace policy)	51%
Cumulative Final Exam	22%
Orientation Quizzes and Surveys	2%

Grade scale (note: there is no rounding to your score in Canvas):

Letter	A	A-	B+	B	B-	C+	C	D+	D	D-	E
Cutoff	90.0	86.0	83.0	80.0	77.0	73.0	69.0	66.0	63.0	60.0	<60.0

GRADE DISPUTES

Should a student wish to dispute any score received in this class, the dispute must be in writing and be submitted to the instructor via Canvas email prior to 11:59 pm on the last day of classes (December 3rd). After that date, the instructor considers those grades final.

UNIVERSITY POLICIES

UNIVERSITY POLICY ON ACCOMMODATING STUDENTS WITH DISABILITIES

Students who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center by visiting disability.ufl.edu/students/get-started. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester.

Accommodations are not retroactive; therefore students should contact the office as soon as possible in the term for which they are seeking accommodations

UNIVERSITY POLICY ON ACADEMIC MISCONDUCT

University of Florida students are bound by the Honor Pledge. On all work submitted for credit by a student, the following pledge is required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Student Honor Code and Conduct Code (Regulation 4.040) specifies several behaviors that are in violation of this code, as well as the process for reported allegations and sanctions that may be implemented. All potential violations of the code will be reported to Student Conduct and Conflict Resolution. If a student is found responsible for an Honor Code violation in this course, the instructor will enter a Grade Adjustment sanction of a score of zero on the assessment in question. Should the violation be related to one of the three progress exams, the average/replace policy will also be rendered null and void. For additional information, see https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/.

CAMPUS RESOURCES

U Matter, We Care: If you or someone you know is in distress, please contact umatter@ufl.edu, 352-392-1575, or visit U Matter, We Care website to refer or report a concern and a team member will reach out to the student in distress.

Counseling and Wellness Center: Visit the Counseling and Wellness Center website or call 352-392-1575 for information on crisis services as well as non-crisis services.

Student Health Care Center: Call 352-392-1161 for 24/7 information to help you find the care you need, or visit the Student Health Care Center website.

University Police Department: Visit UF Police Department website or call 352-392-1111 (or 9-1-1 for emergencies).

UF Health Shands Emergency Room / Trauma Center: For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; Visit the UF Health Emergency Room and Trauma Center website.

GatorWell Health Promotion Services: For prevention services focused on optimal wellbeing, including Wellness Coaching for Academic Success, visit the GatorWell website or call 352-273-4450.

ACADEMIC RESOURCES

E-learning technical support: Contact the UF Computing Help Desk at 352-392-4357 or via e-mail at helpdesk@ufl.edu.

Career Connections Center: Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services.

Library Support: Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center: Broward Hall, 352-392-2010 or to make an appointment 352- 392-6420. General study skills and tutoring.

Writing Studio: 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers.

Student Complaints On-Campus: Visit the Student Honor Code and Student Conduct Code webpage for more information.

On-Line Students Complaints: View the Distance Learning Student Complaint Process

COURSE EVALUATIONS

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online. Students can complete evaluations in three ways:

1. The email they receive from GatorEvals,

2. Their Canvas course menu under GatorEvals, or

3. The central portal at https://my-ufl.bluera.com/

Guidance on how to provide constructive feedback is available at https://gatorevals.aa.ufl.edu/students/. Students will be notified when the evaluation period opens. Summaries of course evaluation results are available to students at https://gatorevals.aa.ufl.edu/public-results/.

NETIQUETTE

All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions, and chats. http://biostat.ufl.edu/resources/e-learning-resources/e-learning-basics/etiquette-online/

GETTING HELP

For issues with or technical difficulties with Canvas, contact the UF Help Desk: https://it.ufl.edu/helpdesk/; (352)-392-HELP.

(352)-392-HELP.

CONFLICT RESOLUTION PROCEDURE

Any classroom issues, disagreements or grade disputes should be discussed first between the instructor and the student. If the problem cannot be resolved, please contact the Chemistry Associate Chair (asochair@chem.ufl.edu). Be prepared to provide documentation of the problem, as well as all graded materials for the semester. Issues that cannot be resolved departmentally will be referred to the University Ombuds Office (http://www.ombuds.ufl.edu; 352-392-1308) or the Dean of Students Office (http://www.dso.ufl.edu; 352-392-1261).

COURSE TOPICS

The following list details the order of topics that will be covered in this course:

Chapter 1: Foundations
- 1.1 Chemistry: Part of Everything You Do
- 1.2 Describing Matter
- 1.3 Energy and Change
- 1.4 The Scientific Method

Chapter 2: Measurement
- 2.1 Measurement: A Foundation of Good Science
- 2.2 Unit Conversion
- 2.3 Density: Relating Mass to Volume
- 2.4 Measuring Temperature

Chapter 3: Atoms
- 3.1 Atoms: The Essential Building Blocks
- 3.2 The Periodic Table of the Elements
- 3.3 Uncovering Atomic Structure
- 3.4 Describing Atoms: Identity and Mass
- 3.5 Electrons – A Preview

Chapter 4: Light and Electronic Structure
- 4.1 The Electromagnetic Spectrum
- 4.2 Color, Line Spectra, and the Bohr Model
- 4.3 The Quantum Model and Electron Orbitals
- 4.4 Describing Electron Configurations
- 4.5 Electron Configuration and the Periodic Table

Chapter 5: Chemical Bonds and Compounds
- 5.1 Lewis Symbols and the Octet Rule
- 5.2 Ions
- 5.3 Ionic Bonds and Compounds
- 5.4 Covalent Bonding
- 5.5 Distinguishing Ionic and Covalent Compounds
- 5.6 Aqueous Solutions: How ionic and covalent compounds differ
- 5.7 Acids – an Introduction

Chapter 6: Chemical Reactions
- 1.1 Chemical Equations

1.2 Classifying Reactions
1.3 Reactions between Metals and Nonmetals
1.4 Combustion Reactions
1.5 Reactions in Aqueous Solution

Chapter 7: Mass Stoichiometry
7.1 Formula Mass and Percent Composition
7.2 Connecting Atomic Mass to Large-Scale Mass: The Mole Concept
7.3 The Mole Concept in Balanced Equations
7.4 Theoretical and Percent Yield

Chapter 11: Solutions
11.1 Describing Concentration
11.3 Reactions in Solution
11.4 Solution Stoichiometry

Chapter 8: Energy
8.1 Energy, Work, and Heat
8.2 Heat Energy and Temperature
8.3 Heat Energy and Chemical Reactions

WEEKLY SCHEDULE

Reading times are approximately 2 min/page

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
			August 21 Log in to Canvas Opt in for eBook/Achieve Coursework	22 Read Ch. 1.1 – 1.2 pages 3 - 11
25 Read: Ch. 1.3 pages 12 - 14	26 Read: Ch. 1.4 pages 14 - 16	27 Read: Ch. 2.1 pages 25 - 36	28 Read: Ch 2.2 pages 36 – 42 Ch. 1 Adaptive Chapter Assignment due	29 Read: Ch. 2.3-2.4 pages 42 – 45
September 1 Holiday – Labor Day	2 Achieve Orientation Assignment Orientation Quizzes (Syllabus, Netiquette etc.) **Math-Up Skills Test (MUST)**	3 Ch. 2 Adaptive Assignment due Optional Math Review Assignment	4 Ch 1 & 2 Homework due	5 Quiz 1: Ch 1 & 2

8 Read: Ch. 3.1 – 3.2 pages 56 – 64	9 Read Ch. 3.3-3.4 pages 64 – 70	10 Read Ch. 3.5 pages 71 – 74 Ch 3 Adaptive Assignment Due	11 Ch 3 Homework Due	12 Quiz 2: Ch. 3
15 Read Ch. 4.1 pages 84 – 86 Achieve Intro Survey Due	16 Read Ch. 4.2 pages 86 – 89	17 Read Ch. 4.4 pages 94 -98	18 Read: Ch. 4.5 pages 99 - 104 Ch. 4 Adaptive Assignment Due	19 Ch. 4 Homework Due
22 Quiz 3: Ch. 4	23 **Exam 1** (cumulative through Ch. 4) Available 7-11 pm ET	24 Read Ch. 5.1 page 113	25 Read Ch. 5.2 pages 113 - 118	26 Read Ch. 5.2 contd. pages 113 - 118
29 Read: Ch. 5.3 pages 118 - 121	30 Read: Ch. 5.4 pages 121 – 125 Post Exam 1 Reflection Survey Due	October 1 Read: Ch. 5.5- 5.6 pages 126 - 129	2 Read: Ch. 5.7 pages 129 – 130 Ch. 5 Adaptive Assignment Due	3 Ch. 5 Homework due
6 Quiz 4: Ch. 5	7 Read: Ch. 6.1 pages 141 - 146	8 Read: Ch. 6.1 contd. pages 141 – 146	9 Read: Ch. 6.2 pages 147 - 149	10 Read: Ch. 6.2 contd. pages 147 - 149
13 Read: Ch. 6.3 – 6.4 pages 149 - 153	14 Read: Ch. 6.5 pages 153 – 161	15 Read: Ch. 6.5 contd. pages 153 – 161 Ch. 6 Adaptive Assignment Due	16 Ch. 6 Homework Due	17 No class - Homecoming
20 Quiz 5: Ch. 6	21 **Exam 2 (CH 5 - 6 inclusive)** Available 7-11 pm ET	22 Read Ch. 7.1 pages 174 - 177	23 Read Ch. 7.1 contd. pages 174 - 177	24 Read: Ch 7.2 pages 177 - 180

27 Read: Ch 7.3 pages 180 - 189	28 Read: Ch 7.3 contd. pages 180 - 189 Post Exam 2 Reflection Survey Due	29 Read: Ch 7.3 contd. pages 180 - 189	30 Read Ch. 7.4 pages 189 - 190	31 Read Ch. 7.4 contd. pages 189 – 190 Ch. 7 Adaptive Assignment Due
November 3 Ch. 7 Homework Due	4 Quiz 6: Ch. 7	5 Read: Ch. 11.1 pages 291 - 297	6 Read: Ch. 11.1 contd. pages 291 - 297	7 Read: Ch. 11.3 Page 305
10 Read: Ch. 11.4 pages 306 – 309	11 Holiday – Veterans Day	12 Read: Ch. 11.4 contd. pages 306 – 309 Ch. 11 Adaptive Assignment Due	13 Ch. 11 Homework Due	14 Quiz 7: Ch. 11
17 **Exam 3 (CH 7, 11.1, 11.3, 11.4 Inclusive)** Available 7-11 pm ET *Withdrawal deadline*	18 Read: Ch. 8.1 pages 202 - 207	19 Read: Ch. 8.2 pages 207 – 213	20 Read: Ch. 8.2 contd. pages 207 – 213	21 Read: Ch. 8.3 pages 213 – 217 Post Exam 3 Reflection Survey Due
24 Holiday - Thanksgiving	25 Holiday - Thanksgiving	26 Holiday - Thanksgiving	27 Holiday - Thanksgiving	28 Holiday - Thanksgiving
December 1 Read: Ch. 8.3 contd. pages 213 – 217 Ch. 8 Adaptive Assignment Due	2 Ch. 8 Homework Due	3 Quiz 8: Ch. 8 End of Semester Survey	4 Reading Day	5 Reading Day
6 (Saturday) **Final Exam** Available 7-11 pm ET				

DISCLAIMER

Unforeseen circumstances including university closure (weather related, etc.) may necessitate a schedule adjustment. Any changes are communicated promptly to students.