

CHM2045 GENERAL CHEMISTRY I UFO

SUMMER 2025

CLASS NUMBERS: 10377,17947

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INSTRUCTOR INFORMATION

Instructor	Email	Office Hours (Zoom)
Dr. Simon E. Lopez	Email in Canvas <u>only</u>	Virtual Office Hours via Zoom Tuesdays 11:00 am - 12:30 pm Thursdays 11:00 am - 12:30 pm
Graduate Teaching Assistant TBA	Email in Canvas <u>only</u>	Virtual Office Hours via Zoom TBA

GENERAL INFORMATION

CREDITS/PREREQUISITES

3 credits. Prerequisites: a C or higher in MAC1147 or the equivalent or higher and a passing score on the ALEKS Math placement exam or a C or higher in CHM1025. Check the Course Catalog for math requirements to continue in general chemistry sequence.

COURSE DELIVERY/MEETING TIMES

This is a 100% online course. Virtual office hours (via Zoom conference) will be scheduled weekly throughout the semester and can be made by appointment.

COURSE DESCRIPTION/GOALS

CHM 2045 is the first semester of the CHM2045/CHM2045L and CHM2046/CHM2046L sequence. Stoichiometry, atomic and molecular structure, the states of matter, reaction rates and equilibria. A minimum grade of C is required to progress to CHM2046. (P)

By the end of this course, students will be able to describe and apply the scientific method, and describe and apply skills to solving problems including those involving multi-step mathematical sequences. Students will acquire knowledge generally of the field of chemistry, and will be able to connect this knowledge to principles that govern the natural world.

Specifically, students will be able to:

1. Classify and describe the properties, types, and changes of matter. Characterize, predict formulas for, and name ionic and molecular compounds.
2. Analyze physical processes in chemical sciences and identify the principles of those processes to make predictions of chemical behavior.
3. Solve chemical problems, involving unit conversions, reaction stoichiometry, solutions, gas laws, thermochemistry, and kinetics.
4. Describe the principles of quantum theory and use them to evaluate atomic and molecular structure, periodic trends, and bonding theories.
5. Describe and differentiate between the different types of intermolecular forces; describe the properties of the liquid and solid states.
6. 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 frequently for new *Announcements* and/or emails containing important information and reminders. Click on the *Syllabus* tab. Click on *Modules* and read all the information under the *Orientation* section as many of your questions are answered there.

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
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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 1-6	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 1-6	Independent Practice: <ul style="list-style-type: none"> Graded Homework Graded Chapter Problem Sets Formative: <ul style="list-style-type: none"> Lecture Video Playposit questions Quizzes Practice Exams Summative: 4 Exams
Communication	Communicate scientific knowledge, thoughts, and reasoning clearly and effectively.	Objective 3-6	<ul style="list-style-type: none"> Discussion 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)

Required: ALEKS 360, which includes the eBook: M. Silberberg, "Chemistry: The Molecular nature of Matter and Change with Advanced Topics," 10th ed., McGraw-Hill, New York 2024.

This course is participating in UF All Access. At the beginning of 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. The opt-in code is the comprehensive package (ALEKS homework and the eBook of Silberberg).

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 the ALEKS from the navigation bar, and provide the access code when prompted to do so. If you have any questions about the authorization process or refunds contact Included@bsd.ufl.edu.

See the ALEKS page in Canvas in the Orientation Module for a walkthrough video for instructions on viewing the textbook and navigating within ALEKS.

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 the McGraw Hill website. A paper version is on reserve at the Marston Science Library for reference purposes.

All other assigned material will be available through Canvas.

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 for calculations.

WEBCAM/MICROPHONE/SPEAKERS

You are required to have a functioning webcam, microphone, and speakers for proctored exams. See the technical requirements at www.proctoru.com. Verify that your operating system is compatible with ProctorU. (ProctorU currently does not support Chromebooks, for example.)

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. ProctorU has specific hardware/software requirements: <http://www.proctoru.com/tech.php>. Check the support page for ALEKS for technical support using their platform: <https://mhedu.force.com/aleks/s/>.

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).

I encourage you to post questions related to ALEKS homework or end of chapter questions you're working on to the Study Rooms. The homework isn't 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 aren't permitted to discuss grade related questions outside of Canvas. You will be asked to resend the query through Canvas.

COURSE POLICIES

QUIZZES

Chapter quizzes are delivered in ALEKS. These quizzes are not proctored, but are timed, and are subject to the Honor Code. It is recommended that you watch the corresponding lecture videos and complete all your assignments prior to attempting each quiz. When you're ready to begin, simply click 'Assignments' from the dropdown menu in ALEKS and select your chapter quiz. Quizzes are timed at 90 minutes each with two attempts at each quiz, with incorrect answers only appearing on the second attempt.

Graded quizzes can be submitted up to five days late for reduced credit, 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 August 8th. Note that if a quiz is submitted even 1 s after the due date/time, the late penalty will apply.

EXAMS

Three 2-hr progress exams and one 2-hr cumulative final exam are administered in Canvas. Due to the nature of this course's content, the topics assessed 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). 2 points will be deducted from your score if you neglect to sign the Honor Pledge question at the end of every exam.

EXAM PROCTORING

All exams are remotely proctored. In-person examinations are not an option for this 100% online course. Exam dates are as follows:

Exam 1: May 30th; Exam 2: June 18th; Exam 3: July 22nd; Final Exam: August 7th

Two proctoring services will be used to administer exams. For residential students in the distance learning sections, please follow Honorlock proctoring instructions below. For UF Online students, please follow the Proctor U instructions below.

HONORLOCK FOR RESIDENTIAL (DL) SECTIONS

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 a computer, 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 "Take the Quiz" 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/>

PROCTORU FOR UFO STUDENTS

All your exams are remotely proctored by ProctorU. It is your responsibility to register with ProctorU and reserve an exam time on the assigned dates during available times. To do so, click on the ProctorU tab in Canvas. Reservations (exam start times) are available for each during-the-term exam beginning at 6 pm, through 8 pm only. The final exam will have start times beginning at 11:30 am through 1:30 pm.

If you fail to make a reservation sufficiently in advance (>72 h) a late fee may be assessed by ProctorU, and you may have difficulty obtaining a desirable time. Failure to reserve a time slot in advance is not an accepted excuse for a late exam. A significant penalty is assessed for missing an exam.

If you encounter technical difficulties with ProctorU, contact ProctorU directly

<https://support.proctoru.com/hc/en-us/articles/35647417336973-Test-Taker-Support>. If you have trouble navigating their reservation system, call them (855-772-8678) for assistance.

To help you prepare for an exam proctored by Honorlock, please read:

<https://support.proctoru.com/hc/en-us/articles/25557846449037-How-to-Get-Started-with-the-ProctorU-Platform>

ADDITIONAL EXAM POLICIES

If you suspect an error in the grading of an exam, it is your responsibility to notify the lecturer in via email within one week of the grade being posted on Canvas for consideration. No grade change considerations or changes will be made after this one week period.

PROGRESS EXAM “AVERAGE/REPLACE” POLICY

This applies to all students. No progress exam score will be dropped for any reason. To alleviate the stress of 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.

ASSIGNMENT POLICY

ALEKS MODULES (HOMEWORK)

Access the electronic homework and eBook directly from within Canvas by selecting ALEKS from the navigation bar. A significant portion of your grade stems from on-time completion of equally weighted *ALEKS Modules*. Whatever percentage of the topics you complete on time within an objective will count for credit - i.e. if you complete 7 of 10 topics within a particular objective assignment you will earn 70% credit for that objective, or 7/10 points for that objective. The average completion time is approximately 3 topics/h, system-wide in the ALEKS system. Plan your time accordingly.

ALEKS is set up in a specific manner - you will need to complete some topics in order to proceed to the next topic, as topics and concepts in chemistry build on one another. There isn't a way to disable this setting. You are encouraged to work on assignments early and frequently for short periods of time, no more than 2 or 3 h at a sitting.

The one lowest *ALEKS Objectives* grade is dropped from your overall course grade. ALEKS objectives cannot be completed late for credit.

ALEKS PIE

A significant portion of your grade stems from completion of your *ALEKS Pie* by the last day of the semester. The work you do on *ALEKS Objectives* counts towards this goal. You can catch up or work ahead on your pie progress during *Open Pie* periods. Whenever you complete an *ALEKS Objective* before its due date/time you also will enter *Open Pie* mode. Pie progress is calculated as $(\# \text{ topics completed} / \text{total } \# \text{ topics}) * 100\%$. The pie progress % you view in ALEKS is a good estimate of this, but the precise value according to the calculation above is used in your grade calculation in Canvas.

LECTURE VIDEO PLAYPOSIT QUESTIONS

The material from each chapter that will be covered in this course is arranged by individual Modules in Canvas. Lecture videos that are enhanced with graded playposit questions are provided in each chapter lesson. Please watch the videos in their entirety and answer the proposed questions at various timepoints throughout the videos. The playposit questions are intended to check for understanding of the concepts that are presented in each video. There will be a displayed deadline for earning full credit. You will have five (5) attempts for each playposit question and you can earn up to 2% toward your course grade by answering the questions.

The one lowest lecture video playposit score is dropped from your overall course grade.

CHAPTER PROBLEM SETS

A portion of your grade stems from completion of chapter problem sets in Canvas. These problem sets are intended to provide additional robust questions aimed to enhance student understanding of the chemistry concepts covered in this course. Each set has a displayed deadline for earning full credit; you can earn up to 5% toward your grade by completing these assignments. You will have multiple attempts to answer the problem sets. Failure to access a problem set at least once before its due date will result in the loss of ability to access that set for the remainder of the semester. Students that miss a set deadline due to an excused absence can request an extension by contacting the instructor.

For technical help with assignment submissions contact the UF Help Desk.

The one lowest Chapter problem set score is dropped from your overall course grade.

Problem sets can be completed late, with a late penalty of 10% per day submitted late. Note that if a problem set is submitted even 1 s after the due date/time, the late penalty will apply.

PRACTICE ACTIVITIES

Practice activities (Quizlet activities, practice quizzes, simulations, worksheets etc.) are provided in Canvas. Practice activities do not count for credit but offer additional avenues to increase understanding as you prepare for exams.

EXTENSIONS

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 (exams are covered under the General Chemistry Exam Absence Policy) 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.

Exam dates are firm, and all assignments must be completed by the last day of term.

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent 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: acceptable reasons may include religious holidays, military obligations, special curricular requirements (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/#absencetext>). 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 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. Grades are not rounded at the end of term. Exam grades or course grades are not curved. 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 %
ALEKS Modules	7%
ALEKS Pie Progress	5%
Progress Exams (3 @ 16% each)	48%
Cumulative Final Exam	22%
Chapter Problem Sets	6%
Quizzes	7%
Lecture Video Playposit Questions	5%

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 mail within 96 h of the score being posted in Canvas, and within 24 h for the Final Exam. After one week passed since the grade was posted and the student made aware of the posting of the grade(s) to Canvas, the instructor considers those grades final.

UNIVERSITY POLICIES

AUDIO/VIDEO PRESENCE POLICY

Zoom Check-ins with the instructor and/or TA office hours sessions 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 are agreeing 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 are agreeing 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.

Full audio/video presence is required for proctored tests administered by Honorlock.

UNIVERSITY POLICY ON ACCOMMODATING STUDENTS WITH DISABILITIES

Students with disabilities 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.

The student is responsible for scheduling the exam dates with the DRC. Students with disabilities should follow this procedure as early as possible. The DRC has 4 business day policy to submit Accommodated Testing Requests (ATRs). You must submit this documentation prior to submitting assignments or taking quizzes or exams. 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

As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.” You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida. The following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. Any SCCR sanctions given will also result in 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 more information regarding the Student Honor Code, please see: <https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>

U MATTER, WE CARE

Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing Staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

INCLUSIVE LEARNING ENVIRONMENT

We embrace the University of Florida's Non-Discrimination Policy, which reads, "The University shall actively promote equal opportunity policies and practices conforming to laws against discrimination. The University is committed to non-discrimination with respect to race, creed, color, religion, age, disability, sex, sexual orientation, gender identity and expression, marital status, national origin, political opinion or affiliations, genetic information and veteran status as protected under the Vietnam Era Veterans' Readjustment Assistance Act." We are committed to fostering an open and inclusive classroom and laboratory environment in our college, where every student, guest instructor and contributor feels valued. Multicultural and Diversity Affairs (MCDA) is a department within the Division of Student Affairs that celebrates and empowers diverse communities and advocates for an inclusive campus for all students across identities. If you have questions or concerns about your rights and responsibilities for inclusive learning environment, please see your instructor or refer to the Office on Multicultural & Diversity Affairs Website: <https://multicultural.ufl.edu/>

COUNSELING AND WELLNESS CENTER

Visit <https://counseling.ufl.edu/> or call 352-392-1575 for information on crisis services as well as non-crisis services.

FEEDBACK

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://lss.at.ufl.edu/help.shtml> (352)-392-HELP.

Other resources are available at <http://www.distance.ufl.edu/getting-help> for Counseling and Wellness resources, disability resources, resources for handling student concerns and complaints, and library desk support.

COURSE TOPICS

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

Chapter 1: Keys to Studying Chemistry

Chapter 2: The Components of Matter

Chapter 3: Stoichiometry of Formulas and Equations

Chapter 4: Three Major Classes of Chemical Reactions

Chapter 5: Gases and Kinetic Molecular Theory

Chapter 6: Thermochemistry: Energy Flow and Chemical Change

Chapter 7: Quantum Theory and Atomic Structure

Chapter 8: Electron Configuration and Chemical Periodicity

Chapter 9: Models of Chemical Bonding

Chapter 10: The Shapes of Molecules

Chapter 11: Theories of Covalent Bonding

Chapter 12: Intermolecular Forces: Liquids, Solids, and Phase Changes

Chapter 13: The Properties of Mixtures: Solutions and Colloids

Chapter 16: Kinetics: Rates and Mechanisms of Chemical Reactions

TENTATIVE WEEKLY SCHEDULE

The following schedule is tentative, but exam dates will not change. Note: this is designed to replicate F2F class. Reading times are approximately 2 min/page.

Monday	Tuesday	Wednesday	Thursday	Friday
May 12 Orientation Module Orientation Quiz	13 Module 1 (review)	14 Module 2 (review) Modules 1 & 2 Playposit due	15 Ch. 1-2 Problem Set Ch. 1 & 2 Quiz	16 Module 3 Lesson 3.1 Read p 93-102 Lesson 3.2 Read p 102-107
19 Lesson 3.3 Read p 107-125 Module 3 Playposit	20 Ch. 3 Problem Set ALEKS HW Ch. 1-3	21 Ch. 3 Quiz	22 Module 4 Lesson 4.1 Read p 141-149	23 Lesson 4.2 Read p 152-176 Lesson 4.3 Read p 177-186
26 Holiday	27 Module 4 Playposit ALEKS HW Ch. 4	28 Ch. 4 Problem Set Ch. 4 Quiz	29 Module 5 Lesson 5.1 Read p 201-218	30 Exam 1 Ch 1-4
June 2 Lesson 5.2 Read p 218-227 Lesson 5.3	3 Module 5 Playposit ALEKS HW Ch. 5	4 Ch. 5 Problem Set Ch. 5 Quiz	5 Module 6 Lesson 6.1 Read p 253-264	6 Lesson 6.2 Read p 264-272

Read p 227-240				
9 Lesson 6.3 Read p 272-277 Module 6 Playposit ALEKS HW for Ch. 6	10 Ch. 6 Problem Set Ch. 6 Quiz	11 Module 7 Lesson 7 Read p 291-318 Module 7 Playposit	12 Ch. 7 Problem Set ALEKS HW for Ch. 7 Ch. 7 Quiz	13 Module 8 Lesson 8.1 Read p 328-339
16 Lesson 8.2 Read p 340-354 Module 8 Playposit ALEKS HW for Ch. 8	17 Ch. 8 Problem Set Ch. 8 Quiz	18 Exam 2 Ch 5-8	19 Holiday	20 Module 9 Lesson 9.1 Read p 363-373
23 Summer Break	24 Summer Break	25 Summer Break	26 Summer Break	27 Summer Break
30 Lesson 9.2 Read p 373-383	July 1 Lesson 9.3 Read p 384-388 Module 9 Playposit ALEKS HW for Ch. 9	2 Ch. 9 Problem Set Ch. 9 Quiz	3 Module 10 Lesson 10.1 Read p 399-412	4 Holiday
7 Lesson 10.2 Read p 412-425	8 Module 10 Playposit ALEKS HW Ch. 10	9 Ch. 10 Problem Set Ch. 10 Quiz	10 Module 11 Lesson 11.1 Read p 437-449	11 Lesson 11.2 Read p 449-458 Module 11 Playposit ALEKS HW Ch. 11
14 Ch. 11 Problem Set Ch. 11 Quiz	15 Module 12 Lesson 12.1 Read p 467-477	16 Lesson 12.3 Read p 488-492	17 Module 12 Playposit ALEKS HW Ch. 12	18 Ch. 12 Problem Set Ch. 12 Quiz

	Lesson 12.2 Read p 478-487	Lesson 12.4 Read p 492-506		
21 Module 13 Lesson 13.1 Read p 531-544	22 Exam 3 Ch. 9-12	23 Lesson 13.1 contd. Read p 531-544	24 Lesson 13.2 Read p 544-551	25 Lesson 13.3 Read p 552-563
28 Module 13 Playposit ALEKS HW Ch. 13	29 Ch. 13 Problem Set Ch. 13 Quiz	30 Module 14 (Ch 16) Lesson 14.1 Read p 687-702	31 Lesson 14.1 contd. Read p 687-702	August 1 Lesson 14.2 Read p 703-710
4 Lesson 14.3 Read p 711-729	5 Module 14 (Ch 16) Playposit ALEKS HW Ch. 16	6 Ch. 16 Problem Set Ch. 16 Quiz	7 Cumulative Final Exam	8 Office Hours Only ALEKS Pie is due

DISCLAIMER

This syllabus represents current plans and objectives. As we go through the semester, those plans may need to change to enhance the class learning opportunity. Such changes, communicated clearly, are not unusual and should be expected.