CHM2045 GENERAL CHEMISTRY I
FALL 2023; MONDAY/WEDNESDAY/FRIDAY (MWF) PERIODS 1 AND 3

INSTRUCTOR INFORMATION

<table>
<thead>
<tr>
<th>Instructors</th>
<th>Email/Office/Phone</th>
<th>Office Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Ashlyn Hale</td>
<td>Email in Canvas preferred</td>
<td>MW 1:50-3:50 pm</td>
</tr>
<tr>
<td>Associate Instructional Professor</td>
<td><a href="mailto:ashlyn.rose.hale@chem.ufl.edu">ashlyn.rose.hale@chem.ufl.edu</a></td>
<td>Keene-Flint Hall 258</td>
</tr>
<tr>
<td></td>
<td>352-294-3661</td>
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<td></td>
<td>CLB412D</td>
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</tr>
</tbody>
</table>

TEACHING ASSISTANTS

Grad TAs: Nicholas Campbell, Grayce Dyer, Gina Pedro, Naomi Selejan

Email: ncampbell2@chem.ufl.edu, gracedyer@ufl.edu, gdiodati@chem.ufl.edu, nselejan@ufl.edu

Office hours @ Chemistry Learning Center (CLC) in SFH 105:


Teaching Center offers free tutoring assistance, and you can get help from any of the CHM2045/CHM2046/CHM2096 teaching assistants in the CLC.

COURSE DELIVERY/MEETING TIMES

The course is delivered in a face-to-face format. Instructors may decide to offer Zoom/HyFlex options for lecture times only but are not required to do so. Attendance in person may be monitored. Discussion sections are held only in-person in assigned classrooms at assigned class meeting times. Exams are evening assembly exams, on campus, rooms TBA, periods E2-E3.

COURSE FEES

Additional Course Fees: none

GENERAL INFORMATION

PREREQUISITES

Please refer to the Undergraduate Catalog for placement and prerequisite information.

COURSE DESCRIPTION AND GOALS

The first semester of the CHM 2045/CHM 2045L and CHM 2046/CHM 2046L sequence. Stoichiometry, atomic and molecular structure, the states of matter, reaction rates and equilibria. A minimum grade of C is required to progress to CHM 2046. (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.

**FIRST DAYS**

Log into Canvas and access the course. You should check daily for new Announcements and/or emails containing important information. Your instructor has provided information in Canvas on recommended study habits/skills to help you succeed in the course.

**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.

In General Chemistry I, these objectives will be met as detailed below.

At the end of this course, students will be expected to have achieved the following learning outcomes in content, communication, and critical thinking:

**Content:** *Students demonstrate competence in the terminology, concepts, theories and methodologies used within the discipline.* Students will acquire a basic knowledge of a variety of chemistry concepts including the scientific method, stoichiometry, reaction types, thermodynamics, solutions, solids, gases, and chemical bonding. Achievement of this learning outcome will be assessed largely through assigned homework problems, and quizzes and exams.

**Communication:** *Students communicate knowledge, ideas, and reasoning clearly and effectively in written and oral forms appropriate to the discipline.* Students participate in class discussions throughout the semester to reflect on pertinent topics. Achievement of this learning outcome is realized through discussion sessions and/or office hours during which students formulate questions, construct arguments, and use logical reasoning to draw reasonable conclusions.

**Critical Thinking:** *Students analyze information carefully and logically from multiple perspectives, using discipline-specific methods, and develop reasoned solutions to problems.* Students apply mathematical knowledge and reasoning to solve chemical problems. This may entail use of algebra, basic geometry, and graphical analysis. Achievement of this learning outcome is largely assessed via worksheets, assigned homework problems, and quizzes and exams.
COURSE LEARNING OUTCOMES

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

REQUIRED & RECOMMENDED COURSE MATERIALS

TEXTBOOK (ONLINE EBOOK WITH HW; REQUIRED IN FULL)

The text Chemistry: The Molecular Nature of Matter and Change, 9th ed., Silberberg & Amateis (McGraw Hill) is required. Access to the textbook is via the ALEKS platform, accessed through a link in your Canvas course. A portion of your grade may stem from electronic homework (ALEKS) via the same link. You must purchase ALEKS360 (both the text and electronic homework) for the course. This includes access for the ALEKS Prep for CHM2045 at no additional charge to you.

There are two options for purchasing access to homework/ebook: Option 1: consent to have the purchase price charged to your student account following the directions posted on the course homepage in Canvas; this is a time-limited option after which only Option 2 is available. Option 2: purchase an access code for the materials at the UF Bookstore (at a slightly higher price).

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 module, 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.

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.

ALEKS PREP FOR CHM2045 (REQUIRED IN FULL; NO CHARGE)

Completion of the ALEKS Prep course for CHM2045, in an ALEKS course designated Fall 2023, counts towards your overall course grade in CHM2045. The Prep is provided at no additional charge. Only student work within the prep course for Fall 2023 counts for credit for Fall 2023. Detailed information is provided on our ALEKS information page.

ALEKS Prep can count for as much as 2% of your final course grade. A minimum % completion is required to earn any credit, according to the table below. For Fall 2023, the ALEKS Prep is due 9/8/2023 without exception.

<table>
<thead>
<tr>
<th>% ALEKS complete</th>
<th>&lt;70%</th>
<th>70 - &lt;80%</th>
<th>80 - &lt;90%</th>
<th>90 - &lt;99%</th>
<th>99 – 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>% grade earned</td>
<td>0%</td>
<td>0.5%</td>
<td>1.0%</td>
<td>1.5%</td>
<td>2%</td>
</tr>
</tbody>
</table>

CALCULATOR (REQUIRED, MUST PURCHASE)

You will require a calculator capable of logarithmic functions. For exams, the calculator must be non-graphing and non-programmable. The TI-36 has quadratic functions which may be helpful in chm2046.
### COURSE COMMUNICATIONS

#### GENERAL QUESTIONS
General course questions and all academic inquiries should be posed to your instructor during office hours, or to TAs during their office hours or during discussion sessions. Please be prepared before coming to office hours. Emails are for administrative purposes only, and not for distance-instruction.

#### 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. Instructor response time to email queries is <48 h during the workweek, or the first business day for emails received Friday or over the weekend.

### COURSE POLICIES

#### ASSIGNMENT DUE DATES
All due dates for assignments are clearly posted in the course assignments of the Canvas page and reflect the most up-to-date information. All ALEKS assignments are due when the ALEKS website states. Canvas and ALEKS don’t sync too often to update ALEKS due dates. All assignments must be completed by the stated due date and time for credit. A Dean of Students note verifying documentation of illness or personal matter must be provided for at least five of the seven days of the week of the assignments’ deadline for accommodations to be considered.

#### PRE-LECTURE ASSIGNMENTS (PLAs)
You are expected to complete pre-lecture assignments (PLAs) in preparation for each class day. These assignments are based on the reading in the required textbook and/or watching provided videos. Each assignment has problems that match the content before class. These assignments will be posted on Canvas under the quizzes tab and are due just prior to class. You will have multiple attempts to successfully answer the questions on the pre-lecture assignments. Three of these assignment grades are dropped from your overall course grade. Pre-class assignments cannot be submitted late for any credit.

#### CANVAS HOMEWORK (OPTIONAL/FOR PRACTICE)
Several optional homework assignments are available for each chapter to help you understand the material. The homework is posted in Canvas. You have multiple attempts to successfully answer the questions. These are not worth any points. You should also work on numerous End-of-Chapter questions (EOCs).

#### DISCUSSION SESSIONS & WORKSHEETS
Discussion classes meet per your scheduled day/time, and attendance is mandatory. A total of 10 points can be earned each week by attending your discussion class (5 points) and correctly answering the worksheet questions in Canvas (5 points). The worksheet quiz will open at 7 pm on Tuesday and is due by 11:59 pm on Wednesday. You will have 3 attempts. The paper worksheets will be posted on Canvas in advance, and you may start working on it before you come to discussion. Grade discrepancies should be addressed with your graduate TA within a week of grades posting to Canvas. One assignment will be dropped from this category before calculating your final grade.
ALEKS HOMEWORK (HW)

ALEKS HW assignments are due frequently, typically on lecture days and approximately one week after the material was taught in lecture. You have multiple attempts at each homework assignment, with the highest score counting for credit. Homework assignments that are submitted after the deadline incur a late penalty of 50%. Three ALEKS homework assignment scores are dropped from your overall course grade. You can access ALEKS homework and the e-book via the Canvas course under Modules. Additional optional homework assignments are available on Canvas to help you master the material.

ICLICKER

IClicker is a classroom response system used for in-class participation during lectures (free through UF). Several points are dropped before calculating the final iClicker score for each student. https://at.ufl.edu/service-teams/classrooms/classroom-technology/iclicker-response-system/

ALEKS QUIZZES

An ALEKS quiz is due each week on material covered that week in class to help you check whether you have retained the material in preparation for exams. These quizzes will be timed and the deadlines will be posted. You will get two attempts at each quiz, and it is recommended that you take these quizzes seriously so that you get an accurate idea of your knowledge and preparation. Quizzes can be submitted late up until the upcoming exam date with a late penalty of 50%. These quizzes are not proctored but are subject to the Honor Code. There are also optional practice exams posted on Canvas to help you prepare for exams.

EXAMS

Exams occur in the evenings, periods E2-E3, in exam rooms TBA. Exam Dates are 9/22, 10/19, 11/16. You are permitted use of a non-graphing non-programmable scientific calculator. Notes, cell phones or other electronic devices are not permitted. Scantrons, a formula sheet, and blank scratch paper are provided.

Bubbling errors will not be negotiated. A 5 point penalty will be applied for failure to bubble in a UFID correctly or not taking the exam in the assigned room. A 30 point penalty will be applied for failure to bubble in a form code or the wrong form code or for using a writing implement that cannot be scanned (e.g. a pen).

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.

POSTED GRADE DISPUTES

Should a student wish to dispute any grade received in this class, the dispute must be in writing (via Canvas e-mail to your instructor) and submitted within one week of the grade being posted to Canvas. After one week has passed from when the grade was posted and the student made aware of the posting of the grade(s) to Canvas, the instructor considers those grades final.
ATTENDANCE, EXTENSION REQUESTS

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.

Exams taken at any other time than the regularly scheduled exam time have different questions that assess the same material at a comparable level of difficulty. Students are not able to review these exams until after the semester has concluded.

WORKLOAD

As a Carnegie I, research-intensive university, UF is required by federal law to assign at least 2 hours of work per week outside of class for every contact hour. Work done in these hours may include reading/viewing assigned material and doing explicitly assigned individual or group work, as well as reviewing notes from class, synthesizing information in advance of exams or papers, and other self-determined study tasks.

To be successful in this class, you will need to do more than just the graded assignments. For example, there are various, optional practice resources posted in Canvas to guide you in your studying.
GRADING

GRADE POLICY

There is no extra credit available for this course. Grades are not rounded at the end of term. Exam grades or course grades are not curved. Current UF grading policies for assigning grade points can be found in the catalog.

Assignments weights are as follows:

<table>
<thead>
<tr>
<th>Assignment Group</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Progress Exams (3)</td>
<td>60%</td>
</tr>
<tr>
<td>Final Cumulative Exam</td>
<td>23%</td>
</tr>
<tr>
<td>ALEKS Prep</td>
<td>2%</td>
</tr>
<tr>
<td>ALEKS Homework</td>
<td>3%</td>
</tr>
<tr>
<td>ALEKS Quizzes</td>
<td>3%</td>
</tr>
<tr>
<td>iClicker</td>
<td>1%</td>
</tr>
<tr>
<td>Pre-Lecture Assignments (PLAs)</td>
<td>3%</td>
</tr>
<tr>
<td>Discussion/Worksheets</td>
<td>5%</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Letter</th>
<th>A</th>
<th>A-</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>D+</th>
<th>D</th>
<th>D-</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutoff</td>
<td>90.0</td>
<td>86.0</td>
<td>83.0</td>
<td>80.0</td>
<td>77.0</td>
<td>73.0</td>
<td>69.0</td>
<td>66.0</td>
<td>63.0</td>
<td>60.0</td>
<td>&lt; 60.0</td>
</tr>
</tbody>
</table>

UNIVERSITY POLICIES

STUDENTS REQUIRING ACCOMMODATIONS

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.

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. For more information regarding the Student Honor Code, please see: [http://www.dso.ufl.edu/SCCR/honorcodes/honorcode.php](http://www.dso.ufl.edu/SCCR/honorcodes/honorcode.php).

### IN-CLASS RECORDING

Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor. A “class lecture” is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or lecturer during a class session. Publication without permission of the instructor is prohibited. To “publish” means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and 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](http://www.dso.ufl.edu/SCCR/honorcodes/honorcode.php) 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](http://www.dso.ufl.edu/SCCR/honorcodes/honorcode.php) 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](http://www.dso.ufl.edu/SCCR/honorcodes/honorcode.php).
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.

CLAS Academic Resources: 1317 Turlington Hall, 352-392-2010 or to make an appointment 352-392-6420. General study skills and tutoring.


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

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

FEEDBACK

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at https://gatorevals.aa.ufl.edu/students/. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via https://ufl.bluera.com/ufl/. Summaries of course evaluation results are available to students at https://gatorevals.aa.ufl.edu/public-results/.

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.

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. 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: http://www.multicultural.ufl.edu/
The following lecture schedule is tentative, but exam dates will not change. This is the MWF and TR schedule.

<table>
<thead>
<tr>
<th>Dates</th>
<th>Topics (# of lectures)</th>
<th>Silberberg Chapters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 28 – Aug 30</td>
<td>Mass Relations and Stoichiometry (2)</td>
<td>Chap. 3</td>
</tr>
<tr>
<td>Sep 1, Sep 6 – 11</td>
<td>Aqueous Reactions (4)</td>
<td>Chap. 4</td>
</tr>
<tr>
<td>Sep 13 – Sep 18</td>
<td>Gases (3)</td>
<td>Chap. 5</td>
</tr>
<tr>
<td>Sep 20</td>
<td>Review</td>
<td>Cumulative</td>
</tr>
<tr>
<td><strong>Friday, Sep 22</strong></td>
<td><strong>Progress Exam 1 (8:20pm-10:20pm)</strong></td>
<td><strong>Cumulative</strong></td>
</tr>
<tr>
<td>Sep 22 – Sep 27</td>
<td>Enthalpy &amp; Calorimetry (3)</td>
<td>Chap. 6</td>
</tr>
<tr>
<td>Sep 29 – Oct 2</td>
<td>Quantum Mechanical Model (2)</td>
<td>Chap. 7</td>
</tr>
<tr>
<td>Oct 4 - Oct 9</td>
<td>Electron Configuration and Periodic Trends (2)</td>
<td>Chap. 8</td>
</tr>
<tr>
<td>Oct 11 – Oct 16</td>
<td>Chemical Bonding Models (3)</td>
<td>Chap. 9</td>
</tr>
<tr>
<td>Oct 18</td>
<td>Review</td>
<td>Cumulative</td>
</tr>
<tr>
<td><strong>Thursday, Oct 19</strong></td>
<td><strong>Progress Exam 2 (8:20pm-10:20pm)</strong></td>
<td><strong>Cumulative</strong></td>
</tr>
<tr>
<td>Oct 20 – Oct 25</td>
<td>Molecular Geometry (3)</td>
<td>Chap. 10</td>
</tr>
<tr>
<td>Oct 27 – Oct 30</td>
<td>Covalent Bonding Theories (2)</td>
<td>Chap. 11</td>
</tr>
<tr>
<td>Nov 1 – 8</td>
<td>Intermolecular Forces, Liquids and Solids (4)</td>
<td>Chap. 12</td>
</tr>
<tr>
<td>Nov 15</td>
<td>Review</td>
<td></td>
</tr>
<tr>
<td><strong>Thursday, Nov 16</strong></td>
<td><strong>Progress Exam 3 (8:20pm-10:20pm)</strong></td>
<td><strong>Cumulative</strong></td>
</tr>
<tr>
<td>Nov 13 – 20</td>
<td>Properties of Solutions (3)</td>
<td>Chap. 13</td>
</tr>
<tr>
<td>Nov 27 – Dec 4</td>
<td>Chemical Kinetics (4)</td>
<td>Chap. 16</td>
</tr>
<tr>
<td>Dec 6</td>
<td>review</td>
<td></td>
</tr>
<tr>
<td><strong>Saturday, Dec 9</strong></td>
<td><strong>Final Exam (3:00pm-5:00pm)</strong></td>
<td><strong>Cumulative</strong></td>
</tr>
</tbody>
</table>

**No classes on these days:** Monday, Sept. 4 (Labor Day); Friday, October 6 (Homecoming); Friday, Nov. 10 (Veterans Day); Wednesday through Friday, Nov. 22-24 (Thanksgiving). No discussion classes will meet on Tuesday, Nov. 21.

**DISCLAIMER**

This syllabus represents my 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.