**Instructors:**
Dr. Suzanne Bart, sbart@purdue.edu  
Dr. Scott McLuckey, mcluckey@purdue.edu  
Dr. John Nash, inash@purdue.edu  
Dr. Gudrun Schmidt, gudrun@purdue.edu  
Dr. Paul Wenthold, pgw@purdue.edu

**Office hours:** Refer to the schedule on the course Brightspace page.

**Lectures:** In person (WTHR 200) and recorded via Boilercast  
Lecture meets two times per week, according to your class schedule.  

**CRNs:** 14183, 14184, 19394, 26982, 26977

**Labs:** In-person, Chaney-Hale Hall of Science (CHAS)  
Labs meet Tues. - Fri. for 2 hours, 50 minutes, according to your class schedule.

**Recitation:** In-person  
Recitations meet Mon. - Thurs. for 50 minutes, according to your class schedule.

**Supervisor TAs:** Zachary McLeod (zcmcleod@purdue.edu), Ilayda Kelley (ikelly1@purdue.edu), Mikolaj Balawender (mbalawen@purdue.edu), Teagan Campbell (campb571@purdue.edu), Maura Wimsatt (mwimsat@purdue.edu) and Mia Monachina (mmonachi@purdue.edu), located in CHAS 2065 during lab periods. They will visit your lab periodically throughout the lab period to answer questions, enforce safety regulations, etc. Your TA can contact them for technical and procedural questions during lab.

**General Chemistry Office, BRWN 1144, genchem@purdue.edu**  
Marybeth Miller, Course Coordinator, BRWN 1144D, mille201@purdue.edu  
Marlene Miller, Administrative Assistant, BRWN 1144, marlenem@purdue.edu  
Melissa Roadruck, Administrative Assistant, BRWN 1144, 765-494-5252, melissa@purdue.edu

The General Chemistry Office handles all the administrative details associated with the course. Direct all non-chemistry questions about the course to this office. For example, contact us to discuss accommodations, to obtain grade checks, to discuss time conflicts, to get clarification on course policies, to resolve grade issues, and to get signatures on university forms such as add/drop forms. We can help you with a variety of requests so you can maximize your success in general chemistry.

Marybeth Miller (mille201@purdue.edu) supervises the teaching assistants, manages administrative aspects of the course, and maintains all of the grade records for the course. She can address concerns or questions you may have about course policies and procedures, as well as assist you with course material.

**Email Communication:** To avoid wasted time and duplicated effort, please do not email multiple course or university personnel individually about the same issue, rather send one email addressed to multiple people. Allow up to two business days (M-F, 8 AM - 5 PM) for a response from your instructor, course coordinator, head TA or TA. In general, we will not answer emails after business hours (M-F, 8 AM - 5 PM).
Course Description
Chemistry 11500 is the foundational general chemistry course for engineering, science, and some agricultural majors. The stated minimum prerequisite for CHM 11500 is one year of algebra and one year of chemistry.

At the beginning of the course, you will use several resources to review most of your high school chemistry, including units, problem solving and significant figures; components of matter; stoichiometry; solution concentration; classes of chemical reactions; and gases and kinetic-molecular theory. Topics covered during the semester will include nuclear chemistry, quantum theory and atomic structure, periodic trends, thermochemistry, models in bonding, shapes of molecules, intermolecular forces, organic chemistry, synthetic and biological polymers, infrared spectroscopy, and liquids, solids, and phase changes. Detailed learning objectives for each unit will be posted on the course Brightspace page.

Learning Outcomes:
By the end of the course, you will be able to:

1. Use theory to understand/predict experimental observations.
2. Demonstrate an understanding of the physical properties and a molecular understanding of chemical reactivity and materials.
3. Document scientific information and experimental data and write scientific reports, with graphical presentation of data.

The course has been designed and structured so that in addition to the treatment of the concepts and topics listed above, there is a simultaneous emphasis on development of problem-solving skills. Laboratories offer an opportunity to reinforce and extend what is discussed in lecture, explore new topics, and to develop your knowledge of chemistry laboratory skills.

The Chemistry 11500 team—the professors, course coordinator, teaching assistants, administrative assistants, and preparations lab staff—are committed and focused on helping you learn chemistry. We know that this is a foundational course for your major and in order to achieve your goals and dreams you need to do well in the course! Please read on to learn about the required materials, lecture and recitation schedule, recommended ways to study, lab policies, grading, and other course policies and procedures.

Foundational Core: CHM 11500 meets the science requirement of the university’s foundational core.

Course Information
Brightspace ([https://purdue.brightspace.com/d2l/login](https://purdue.brightspace.com/d2l/login)) is the primary course management site for the course. Assignments, checklists, links to lectures and labs, announcements, learning objectives, grades, and other course information will be posted on Brightspace. Some office hours will be conducted using Microsoft Teams. It will be important for you to learn which site to use for which type of assignment.

Weekly Assignments
During most weeks, you will have the following assignments:

<table>
<thead>
<tr>
<th>Item</th>
<th>Platform</th>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab Report</td>
<td>Labflow</td>
<td>at the end of your assigned lab period or as announced</td>
<td></td>
</tr>
<tr>
<td>Prelab Quiz</td>
<td>Labflow</td>
<td>Mondays</td>
<td>due 11:59 PM</td>
</tr>
<tr>
<td>Lab Procedure</td>
<td>Labflow</td>
<td>at the start of your lab period</td>
<td></td>
</tr>
<tr>
<td>Homework</td>
<td>Achieve</td>
<td>Tuesdays</td>
<td>due 11:59 PM</td>
</tr>
</tbody>
</table>

All assignments will be listed on the course Brightspace page. Refer to details in the relevant sections that follow.
**Required Materials**

**Textbook:** The textbook used in CHM 11500 is *Chemistry: The Molecular Nature of Matter and Change*, 10th edition, by Silberberg and Amateis. There are several options available for purchasing a paper and/or electronic version of the book, including purchasing a loose-leaf version with eBook directly from McGraw-Hill for $55. See the course Brightspace page for further information.

**Achieve:** In CHM 11500, you are required to complete homework and quizzes online using the Macmillan Achieve program. You can purchase instant access via the link on Brightspace ($42 for one semester access or $59 for multi-semester access) or you can purchase a code from a local bookstore that you can then redeem via the link on Brightspace.

**Office 365** You can download and use Teams/OneNote and other programs free. Go to [https://www.itap.purdue.edu/shopping/software/product/office365.html](https://www.itap.purdue.edu/shopping/software/product/office365.html) and log in using your Purdue account.

**Labflow:** You are required to purchase the Labflow program to access the lab manual and to submit prelab quizzes and lab reports. See the links and instructions on Brightspace for details.

**Lab materials:** In addition to Labflow program, you are also required to have approved safety (splash) goggles, which can be purchased online, in bookstores, or in CHAS (during the first 2 weeks of class).

**Calculator:** You may only use a simple, scientific calculator on exams. Calculators that can graph or solve or store equations are not allowed. See Brightspace (Exam Information) for details.

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**UNIVERSITY AND COURSE POLICIES**

Details of the following policies are listed under the University Policies and Statements module on the CHM 11500 Brightspace page: Academic Integrity, Nondiscrimination, Class Absences, Attendance, Amorous Relationships, Emergency Preparedness, Violent Behavior, Use of Copyrighted Materials, and Land Acknowledgement.

**Registration**

<table>
<thead>
<tr>
<th>CHEMISTRY DEPARTMENT DEADLINES FOR ADDING OR SWITCHING SECTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fri. Aug. 25: last day to add CHM 11500 or switch lab sections <em>without</em> instructor approval</td>
</tr>
<tr>
<td>Fri. Sept. 8: last day to switch lab sections <em>with</em> instructor approval*; last day to add CHM 11500 <em>with</em> instructor approval*</td>
</tr>
<tr>
<td>Mon. Sept. 18: last day to switch from another CHM course to CHM 11500 <em>with</em> instructor approval*</td>
</tr>
</tbody>
</table>

►**Late Registration:** If you register late, notify the course coordinator no later than Fri. Sept. 8 to see about the possibility of making up missed assignments.

<table>
<thead>
<tr>
<th>UNIVERSITY DROP DEADLINES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fri. Sept. 1: last day to drop (cancel) a course using Scheduling Assistant without it appearing on your record*</td>
</tr>
<tr>
<td>Mon. Nov. 27: Last day to drop (cancel) CHM 11500 with a “W”*.</td>
</tr>
</tbody>
</table>

If you drop your laboratory course after having checked into a lab drawer, it is your responsibility to check out of your assigned drawer during your scheduled lab period. Failure to check out of lab will result in a $45 fee, and forfeiture of the right to determine the acceptability of all drawer equipment.

*Submit request using Scheduling Assistant.*
Attendance and Absences
This course follows Purdue’s academic regulations regarding attendance. Only the course instructors (professors) can excuse a student from a course requirement or responsibility. If you are absent, refer to the Absences module on Brightspace and act accordingly.

Under academic regulations, excused absences may be granted by ODOS for cases of grief/bereavement, military service, jury duty, parenting leave, or emergent or urgent care medical care (details below). To request make-up work or deadline extensions for excused absences, see the Absences module on Brightspace.

Student athletes who miss class for NCAA travel should fill out the relevant form in the Absences module on Brightspace to receive the lab make-up assignment. The student athlete must submit their NCAA travel letter to the course coordinator to be eligible for a lab make-up assignment.

For absences due to academic or professional development activities should contact the course coordinator at least one week prior to the absence for consideration. Documentation of the activity must be provided. A make-up assignment or deadline extension may or may not be provided, depending on the nature of the activity (according to the judgement of the instructors).

To account for unexcused absences (illnesses, trips, conflicts, or other situations), the lowest score in each grade category (recitation, lab report, prelab quiz, HW, exam) is automatically dropped at the end of the semester. This includes internet or related technology issues that may have prevented you from completing a lab report, prelab quiz, or homework. Students with unexcused absences are eligible for one lab make-up assignment, per student, per semester. Refer to the Laboratory section of this document for details. No other make-up work or deadline extensions (i.e., for prelab, recitation, HW, or exams) are possible for unexcused absences.

Absence accommodations approved by the Disability Resource Center will be handled individually. Contact the General Chemistry office (genchem@purdue.edu) for more information.
Grief Absence Policy for Students (GAPS)
If you experience the death of a family member or close friend, fill out the form at https://www.purdue.edu/advocacy/students/absences.html. Scores for any missed assignments covered under a verified GAPS absence are usually pro-rated (assigned a score based on your average grade for that type of assignment at the end of the semester). Refer to the Absences module on Brightspace for more information or alternatives.

Military Absence Policy for Students (MAPS)
If you are required to complete mandatory military training, fill out the form at https://www.purdue.edu/advocacy/students/absences.html. Scores for any missed assignments covered under a verified MAPS absence are usually pro-rated (assigned a score based on your average grade for that type of assignment at the end of the semester). Refer to the Absences module on Brightspace for more information or alternatives.

Medical Excused Absence Policy for Students (MEAPS)
Students may occasionally have to miss class and other academic obligations due to hospitalization, emergency department or urgent care visits, whether physical or mental health related in nature. The intention of this policy is to afford arrangements to students experiencing serious and short-term medical situations which cause them to miss coursework and/or exams. A student should complete the Medical Excused Absence Request Form (https://www.purdue.edu/advocacy/students/absences.html) to request that an absence notification be sent to instructors. You will be given the opportunity to make up work missed due to a medical excused absence. Refer to the Absences module on Brightspace for more information on requesting make-up work or deadline extensions.

Mental Health
We care about your mental health. If you or someone you know is feeling overwhelmed, depressed, anxious, and/or in need of mental health support, please talk with your instructor, your TA, one of the head TAs, the course coordinator (Marybeth Miller), your advisor or other trusted person, or seek help from one of the resources below.

- Counseling and Psychological Services (CAPS) at 765-494-6995 and http://www.purdue.edu/caps/ during and after hours, on weekends and holidays, or by going to the CAPS office of the second floor of the Purdue University Student Health Center (PUSH) during business hours.
- WellTrack, https://purdue.welltrack.com/. Sign in and find information and tools at your fingertips, available to you at any time.
- Office of the Dean of Students, http://www.purdue.edu/odos, for walk-in hours or call 765-494-1747 (M – F, 8 am – 5 pm).
- Purdue Wellness Coach at RecWell. If you find yourself struggling to find a healthy balance between academics, social life, stress, etc, student coaches can help you navigate through barriers and challenges toward your goals throughout the semester. Sign up is completely free and can be done on BoilerConnect. If you have any questions, please contact Purdue Wellness at evans240@purdue.edu.

Basic Needs Security
Any student who faces challenges securing their food or housing and believes this may affect their performance in the course is urged to contact the Dean of Students for support. There is no appointment needed and Student Support Services is available to serve students 8 a.m.-5 p.m. Monday through Friday. Considering the significant disruptions caused by the current global crisis as it related to COVID-19, students may submit requests for emergency assistance from the Critical Needs Fund (https://www.purdue.edu/odos/resources/critical-need-fund.html).
**Diversity Statement**
We believe every student in this course has something of value to contribute. Please take care to respect the different experiences, beliefs and values expressed by students and staff involved in this course. We support Purdue’s commitment to diversity, and welcome individuals of all ages, backgrounds, citizenships, countries of origin, disabilities, education, ethnicities, family status, genders, military experiences, political views, races, religions, sexual orientations, socioeconomic status, and work experiences. See: [http://www.purdue.edu/diversity-inclusion/](http://www.purdue.edu/diversity-inclusion/)

**Disability Accommodations**
If you require accommodations to access course activities or materials, the accommodations must be described and approved by the Disability Resource Center, Young Hall Room 830, 302 Wood Street, 765-494-1247, [www.purdue.edu/drc](http://www.purdue.edu/drc). To implement accommodations, you must follow the instructions provided by the Disability Resource Center, *in addition to* doing the following.

Share your “Notification of Course Accommodations” with the CHM 11500 instructors via the AIM system at least one week before an exam or assessment for which accommodations are desired. We may require an in-person or virtual meeting to discuss certain accommodations. *Implementation of accommodations may not be possible if insufficient notification is given.* It is the student’s responsibility to submit all exam requests through their Student Accommodation Portal. There is a 5 BUSINESS DAY (OR 1 CALENDAR WEEK) DEADLINE FOR ALL REGULAR EXAM REQUESTS.

**Accommodated Testing**
Due to the size of the class, students with testing accommodations are expected to schedule and take their examinations through Purdue Testing Services. Students are expected to respond in a timely manner and meet all communicated deadlines to schedule their examinations (including the final) with the Purdue Testing Services. Students with accommodations who fail to respond and fail to schedule their test with the testing center may not be able to have all their accommodations met. Thus, it is critically important that all students read their Purdue email daily and respond in a timely manner to requests or directives, especially if you have accommodations related to testing.

**Emergencies**
In the event of a major campus emergency, course requirements, deadlines, and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances beyond the instructor’s control. Relevant changes to CHM 11500 will be posted on Brightspace and shared via announcements and email. You are expected to read your Purdue email on a frequent basis.

**Purdue’s Honor Pledge**
“As a Boilermaker pursuing academic excellence, I pledge to be honest and true in all that I do. Accountable together - we are Purdue.” [https://www.purdue.edu/provost/teachinglearning/honor-pledge.html](https://www.purdue.edu/provost/teachinglearning/honor-pledge.html)

**Academic Integrity**
All students are expected to be familiar with Purdue’s policies on academic integrity ([https://www.purdue.edu/odos/academic-integrity/](https://www.purdue.edu/odos/academic-integrity/)).

“Dishonesty in connection with any University activity may result in informal action or disciplinary sanctions. Cheating, plagiarism, or knowingly furnishing false information to the University are examples of dishonesty. The commitment of acts of cheating, lying, stealing, and deceit in any of their diverse forms (such as the use of ghost-written papers, the use of substitutes for taking examinations, the use of illegal cribs, plagiarism, and copying during examinations) is dishonest.
and must not be tolerated. Moreover, knowingly to aid and abet, directly or indirectly, other parties in committing dishonest acts is in itself dishonest.” From University Senate Document 72-18.

In CHM 11500, academic integrity means “doing your own work” at all times. Discussion of chemical concepts is encouraged but sharing your answers and work on social media for the express purpose of letting other students copy it is not acceptable. Such a use of technology does not help you learn the material and is considered academic dishonesty.

All collaboration with others (such as Group Me, Zoom, discussion boards, text, in-person, etc.) during a quiz or exam is prohibited.

Working together is allowed on lab reports; however, your answers must be in your own words. All reports will be analyzed with Turnitin (a plagiarism checker), and students with closely matching reports will be investigated.

In lab reports, you must cite any sources (including the lab manual) used for your answers. Copying text word-for-word from the lab manual/instructions or any other source is prohibited and will receive no credit. Using ChatGPT to generate answers is not allowed and violates academic integrity policies.

Using online resources such as Course Hero or Chegg to gain answers to any graded assignment (including homework, labs, quizzes and exams) is not allowed. Posting course materials to websites is a violation of copyright laws and is not allowed. The CHM 11500 instructors can obtain user information from Chegg and other sites when inappropriate course material is posted. This information will be investigated.

Consequences of academic dishonesty include receiving a lower or failing grade for an assignment, being required to repeat the assignment, receiving a lower or failing grade for the course and/or dismissal from the University. All incidents of academic integrity are referred to the Office of the Dean of Students. A student accused of academic dishonesty will be afforded due process as defined by Purdue University procedures.

This course packet is a contract between CHM 11500 students and instructors. If a student violates the contract by committing an act of academic dishonesty, the instructor reserves the right to alter the terms of the contract (including grading policies) at his/her discretion.

Students who observe an issue of academic integrity can report it to the Office of the Dean of Students (https://www.purdue.edu/odos/ - use the General Incident Report to report anonymously), call 765-494-8778 or email integrity@purdue.edu.

Overview of CHM 11500 Activities and Policies

How to Study for CHM 11500
It will take you at least two hours on your own for every hour we spend online or in class in order to study and learn the material. This means you will spend about 8-12 hours of distraction-free studying and working with chemistry each week. You may spend this time reviewing and annotating your lecture notes, reading the text, doing homework, working practice problems, studying for quizzes and exams, or other things. You may find yourself spending more than 8-12 hours per week if your math skills need improvement or if it has been a few years since you took a chemistry course. If you are committed to your goals and dreams, then dedicate yourself to spending the necessary time to perform well.

Before Lecture
- Review your notes from the previous lecture.
- Review the assigned reading and read the sample problems within the assigned section of the textbook.
Use the textbook in ways that work best for you.

- Use the textbook as a reference when you study your lecture notes. Fill in any gaps and correct any information.
- Processing technical information will be more effective in the absence of Netflix, music, texting, etc. Turn your phone on silent and set it aside.
- With technical material, the subheadings often carry important information. This is different from the chapter headings in a novel that usually contain no information.
- Read technical material (like your Chemistry textbook) differently than you would read a novel. Read in short “chunks” and give yourself time to reflect and interpret the information presented. With technical material, it is often difficult to pick up the “story” in the second paragraph if you did not process the first paragraph.
- Try the problems in the book without looking at the solutions! If you have understood what you have read, then you should be able to do the problems. First, cover the solution and try the problem. Second, quickly look at the answer to see if you are correct. If your answer is incorrect, try re-reading the section to see if you missed anything. Third, look at your work again to find your mistake. Fourth, look at the solution of the problem presented in the book. The key is to force yourself to recall and apply material.

During Lecture

- Take notes!
- Write down each step of every problem or example even if you do not understand the step. You can always ask about it later.
- Try to answer all the questions and work all the problems that the professor presents.
- Write a question mark next to things you do not understand so you can return to them after class.
- Use shorthand or abbreviations so that you can write quickly, but understandably.
- Periodically note the time in the margin so that you can quickly find a certain section of the lecture when you review the lecture recording.
- Turn off distractions (i.e. Netflix, other HW, social media, etc.).

After Lecture

- Review your notes while things are still fresh in your mind.
- Listen to the lecture recording to fill in things you missed.
- Attend graduate instructor (TA) office hours to ask questions and get help.
- Never miss lecture. Chemistry is cumulative. What is presented tomorrow depends upon your knowledge of what was covered today. If you will miss class, then get a friend to take notes for you or get the notes from the recording.

When Should I do the Homework?

- Do some work in chemistry every day. Work at least two chemistry problems each day. If you are drawing a blank about the problem after 5-10 minutes, go on to another a problem. After a day or so, work related problems in the textbook.
- Review your class notes and the assigned pages in the textbook before you attempt any of your homework problems.
- Seek help from a TA during recitation, office hours or scheduled online meetings.
Practice, Practice, Practice
- Work additional problems at the end of each chapter that were not assigned as homework.
- Look for similarities and differences in problems (homework questions, lecture examples).
  Classify problems by the type of knowledge that is needed to solve the problem.

Sources of Help
There are several free sources of help for CHM 11500 students. See the Resources section on the course Brightspace page for details. Instructors and TAs will hold office hours each week. You may attend the office hours of any TA in this course. Detailed schedules will be posted on Brightspace in the Resources module.

Supplemental Instruction (SI, www.purdue.edu/SI) is offered for CHM 11500. Please visit Brightspace to access information about connecting with SI sessions for your course(s).

Reading Assignments and Learning Objectives
- Reading assignments will be provided in lecture and on Brightspace. Reviewing the assigned material prior to lecture and laboratory is recommended. Some of the material will be covered in lecture and some on your own.
- Learning Objectives list the concepts you are expected to understand and the skills (calculations) you are expected to demonstrate for each topic covered in the course. They are posted in the Learning Objectives module on Brightspace. Exam questions will be based on the Learning Objectives.

Lectures
- Lecture attendance is essential to learning the material presented. However, do not come to lecture if you are sick, have COVID-19 symptoms, or are directed to isolate or quarantine.
- If slides are used, then student versions of lecture slides may be posted on Brightspace. These are outlines of the lectures and are not a substitute for taking notes in lecture.
- Recordings and screen capture of lectures may be viewed or downloaded using the link in the Lecture module of Brightspace.
- Cell phones, computers, or other electronic devices not being used for instruction purposes are distracting for everyone in a learning situation. Computers can be used to take notes and follow lectures, but please respect your classmates by not using social media, texting, searching the internet, watching Netflix, etc. during class.
- Talking aloud to classmates during lecture is distracting to other students and is disrespectful to the lecturer. If you have a question please ask, but otherwise remain quiet and allow the students around you the opportunity to pay attention.
- If you have questions, please attend TA or instructor office hours (see the Resources module on Brightspace for the schedule).

Recitation
- Weekly recitation provides the opportunity for you to ask questions and work problems with your fellow students and TA. Your questions are always the first agenda item, so come prepared.
- Recitation sessions are held M-Th according to your class schedule.
- Attendance at recitation is required. However, do not come to recitation if you are sick, have COVID-19 symptoms, or are directed to isolate or quarantine. If you have an excused absence, follow the instructions listed in the Absences module of Brightspace to request a make-up
assignment for recitation credit.

- Recitation participation is worth 2 points per week. The maximum number of points you can earn for recitation attendance is 20 (i.e., participation in 10 recitations). At least two recitation participation scores will be dropped at the end of the semester, i.e., you can miss at least two recitations without penalty to your grade.

- Take your textbook, lab materials, homework, calculators, and/or any questions you have regarding the course to recitation.

- Note that it is not your TA’s responsibility to provide you with answers to homework, pre-lab, or lab report questions. Rather, they are expected to guide you to the correct solutions, help you identify mistakes, and add details to help you further understand concepts.

**Homework (Achieve)**

- You will have a weekly homework assignment on the Achieve platform, usually due on Tuesdays by 11:59 PM. All links and due dates will be in the Homework module on Brightspace.

- You will have five attempts for each question in an assignment. There is no penalty for failed attempts.

- Each homework assignment is worth 10 points. The one lowest homework score will be dropped at the end of the semester.

- No time extensions are possible for any homework assignments. Allow plenty of time to do your homework and get the highest possible score. If you wait until the last minute, you risk the possibility of technical difficulties, illness, or other situations interfering with your success.

- Exams are likely to include questions taken from homework assignments.

- For help with technical issues, contact Macmillan customer service at 1-800-936-6899 or use the online form at https://macmillan.force.com/macmillanlearning/s/contactsupport. Chrome is the recommended browser for Achieve.

**Extra Credit (Achieve)**

- You will have extra credit opportunities through adaptive learning assignments and goal-setting and reflection surveys in Achieve. Links will be provided in the Extra Credit module on Brightspace. You may earn up to 10 total points of extra credit, which will be added to your total at the end of the semester.

**Laboratory**

Laboratory projects are an integral part of CHM 11500 and are an opportunity for you to experience the chemical concepts discussed in lecture in a practical way. You will access digital lab materials (procedures, data entry, reports, etc.) via Labflow. You will take pre-lab quizzes on Labflow.

**Laboratory Attendance and Participation**

Lab attendance is required since CHM 11600 is a laboratory course. Students with excused absences are eligible to complete lab make-up assignments. Students with unexcused absences are eligible for one lab make-up assignment, per student, per semester, provided the student applies for a make-up assignment before the lab start time. Refer to the instructions listed in the Absences module of Brightspace to request a lab make-up assignment. Students can complete no more than four lab make-up assignments per semester for excused absences or disability accommodations. To account for all other absences (i.e., unexcused), the one lowest lab score is automatically dropped at the end of the semester.
In the cases below, a zero score (failure to complete) will be assigned:

- being absent for any reason (except excused grief, jury duty, medical, or military absences or NCAA travel)
- being dismissed from lab for an incomplete Safety Certification (score <20/25)
- being dismissed from lab for safety violations, including dress and goggle violations. If you go home to change clothes, you must be back within the first 10 minutes of the lab period. If someone brings you clothes, it must be within the first 10 minutes of the lab period.
- arriving more than 10 minutes after the lab start time (including if you go home to change clothes)
- leaving lab early or otherwise not completing the lab project
- inadequate preparation that hinders lab participation
- not contributing constructively to the group’s work in lab, including leaving the laboratory for longer-than-necessary periods of time/personal breaks
- not recording appropriate data and/or observations during lab
- failure to submit a lab report, even if you attended the lab

**Penalty for missed labs:** If you miss or fail to complete 3 labs, your final grade will be reduced by one full letter grade. If you miss or fail to complete 4 or more labs, you will receive a failing grade (F) for the course. Attending lab but not submitting a lab report is considered a failure to complete.

**Lab Safety**

*Students’ safety in the laboratory is a priority and everyone is required to comply with the following safety regulations. Failure to comply will result in being sent home from lab with a score of zero, which counts as a lab absence.*

- All students will complete the online safety certification on Brightspace. You must score at least 20/25 by Fri. Aug. 25 at 11:59 PM.
- If you miss lab check-in, or score less than 20/25, then you must make alternate arrangements to complete the safety certification before you will be allowed to work in lab. You will be sent home and will receive a zero for each lab you miss due to an incomplete safety certification.
- Goggles are required at all times in the laboratory, including during clean up and lab check-out. If you are in lab and your goggles are not covering your eyes, you will be sent home and will receive a zero for the lab and the lab report (failure to complete). When lab is over and you remove your goggles, you must walk out of the lab immediately. In other words, you must put everything away, pack-up, and chat with classmates before removing your goggles.
- Wear gloves when specified in the lab instructions or by your instructor.
- If your hair is longer than shoulder length, you must tie it behind your head.
- Contact lens wearers are encouraged to wear glasses in the laboratory.
- Food and beverages, including water bottles, are not allowed in the labs.
- Follow your instructor’s guidance on appropriate handling of hazardous materials and disposal of chemical waste.
- Promptly clean up spills and tidy the laboratory before leaving.
- Proper dress (clothing and shoes) is required. Your clothing must cover you from your neck (collarbone) to your ankles when sitting, standing, or reaching. Your feet must be
completely covered by your shoes (see image below). Your TA or lab supervisor might ask you to raise your arms or bend your knees to check if you are violating proper dress.

If you attend lab in unacceptable attire, you will be sent home and will receive a zero for the lab (failure to complete).

*Unacceptable* clothing includes, *but is not limited to:*
- tops that are sleeveless, low-cut or V-neck (below the collar bone), bare midriff or tank-style
- loose-knit sweaters that expose your skin
- pants that are ripped or have holes in the fabric of *any* size
- tights or thin (translucent or transparent) *leggings*
- Capri or cropped pants
- skinny or ankle pants that reveal skin between the shoe and the bottom of the pant leg
- shorts
- short skirts (i.e. shorter than floor length)
- open-toed and/or open-heeled shoes (including Crocs, Birkenstocks or other clogs)
- sandals (with or without socks)
- boat shoes, ballet flats, slippers, moccasins, or any shoe that doesn’t cover the *entire* top of your foot and ankle, with *or* without socks

►If you come to lab wearing anything in the list above, you will be sent home and you will get a zero for that lab.

►Your best option for chemistry lab attire is a crew neck t-shirt, jeans without holes, and sneakers with socks.

![Proper Lab Attire](image)

**Pre-Lab Quizzes**
- The purpose of the pre-lab quizzes on Labflow is to ensure that you have adequately prepared for the lab by reviewing the concepts and procedure.
- Prelab quiz details will be posted on Brightspace in the *Labs* module.
- For the best chance of success, take the pre-lab quiz *after* reading the lab materials on Labflow.
Prelab quizzes are individual assignments. Collaboration with other students or assistance from TAs during the quiz is not allowed. (However, you are allowed to access the lab materials.)

Pre-lab quizzes are due each week in which lab meets on Mondays by 11:59 PM.

If you do not attempt the quiz before the deadline, you will receive a zero for the quiz (out of 5 points). However, you ARE allowed to attend the lab and can still earn points for the lab report (20 points).

There are no make-up quizzes or time extensions except for excused absences or approved accommodations (see pp. 4-5). The lowest prelab quiz score is dropped at the end of the semester to account for illnesses, technical difficulties, and other absences that are not excused.

Lab Notes and Reports

For each lab, you must upload a brief procedure to Labflow by the start of your lab period. Your procedure can be a list of steps, a flowchart, or an outline. Your procedure is meant to show that you read and understand what you will be doing in lab.

For each lab project, you will complete an individual lab report in Labflow. Detailed instructions will be provided later. All submissions will be analyzed by the Turnitin plagiarism checker.

You are encouraged to access lab materials and notes while completing the reports. Also, you may discuss your report with peers and your TA, however you must do your own work (i.e., you should not copy or submit another student’s answers).

Complete the lab report appropriately:

- Answer in full sentences for open-ended questions.
- For calculations or lab notes, make sure your handwriting is clear and legible if you are using a stylus on a tablet or uploading photos of your handwriting.
- Each student must prepare individual graphs and tables, not screenshot or photograph other students’ work. Label graphs and tables clearly.
- Show calculation steps clearly for mathematical questions.
- Show the use of correct units of measurement and significant figures.
- Ensure results and conclusions are consistent with your data and observations.
- Answer questions using your own words, i.e., the language is distinct.
- Cite the lab manual if you are quoting directly from it or put information from the lab manual into your own words.

Lab reports are due at the end of your lab period, or as announced. Reports that are up to 24 hours late are worth 50% credit. Reports that are more than 24 hours late are worth no credit. Check all your work carefully before the deadline to make sure you answered all of the questions.

Lab Grades

- Penalty for missed labs: If you miss or fail to complete 3 labs, your final grade will be reduced by one full letter grade. If you miss or fail to complete 4 or more labs, you will receive a failing grade (F) for the course. Attending lab but not completing a lab report is considered a failure to complete.

  Graded lab reports will be available for viewing approximately one week after submission. You are encouraged to review the graded work as your TA may have left useful feedback for your future improvement. If you have questions about a lab grade, speak with your TA or Marybeth Miller within one week of the graded report becoming available to you. If lab grading is delayed, please inform Marybeth Miller.
• Make sure you review lab content because exams will include lab-related questions.

**Lab Equipment**
You will share an assigned laboratory drawer of equipment with the student(s) at your table. Your lab partner(s) will depend upon your commitment to keeping the equipment clean and in good working condition.

• You and your lab partner(s) will have the opportunity to assess the equipment during check-in day. Any equipment that is unusable, i.e., dirty, chipped, cracked, stained, broken, etc., is replaced free during check-in.

**After check-in day:**

• It is important that you do your part to maintain the drawer throughout the semester by cleaning all the glassware after use by washing with hot water, soap, and a brush, rinse with tap water, then rinse with deionized water. By using this 3-step process for cleaning glassware, you will have better experimental results.

• If you are responsible for a piece of equipment becoming unusable, i.e., the piece becomes chipped, cracked, stained, broken, etc., you must go to the storeroom (immediately) and purchase a replacement.

• Should you discover that a piece of equipment is missing, first check with the other students in your row and in the lost and found box in the lab. If the piece is still missing, your group must replace it immediately. The storeroom staff can split the cost of a replacement among all or any number of lab partners.

• Often pieces of equipment are broken accidentally; for instance, a thermometer rolls off the bench and breaks. Replacing the thermometer is still the responsibility of the group; the storeroom staff can split the cost of a replacement among the lab partners.

**Leaving the Course:** If you drop your laboratory course after having checked into a lab drawer, it is your responsibility to check out of your assigned drawer during your scheduled lab period. Contact your TA and/or the storeroom on the 1st or 4th floor of CHAS for instructions. **Failure to check out of lab will result in a $45 fee,** and forfeiture of the right to determine the acceptability of all drawer equipment.

**Checkout day:**

• On the last day of the laboratory, you and your lab partners will check out of your lab drawer. You must arrive on time, properly dressed and wear goggles. If you arrive more than 15 minutes late, you will be asked to leave the lab and will be assessed a fee of $45.

• You and your lab partners will clean and inventory the drawer for your TAs’ inspection. All missing or unusable equipment must be replaced at that time.
Exams
Exams are a chance for you to demonstrate your comprehension of the course material and are worth approximately 60% of your final grade.

Exams:
• will be administered in the evenings in Elliott Hall of Music, on the dates listed below,
• are worth 150 points each,
• consist of multiple-choice and open-ended/numeric entry questions,
• have a 60-minute time limit (unless you have extended time through the DRC).

Exam dates:

<table>
<thead>
<tr>
<th>Exam</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Wed. Sept. 20</td>
<td>8:00 – 9:00 PM</td>
<td>Elliott Hall</td>
</tr>
<tr>
<td>2</td>
<td>Tues. Oct. 17</td>
<td>8:00 – 9:00 PM</td>
<td>Elliott Hall</td>
</tr>
<tr>
<td>3</td>
<td>Tues. Nov. 14</td>
<td>8:00 – 9:00 PM</td>
<td>Elliott Hall</td>
</tr>
<tr>
<td>Final</td>
<td>To be announced mid-semester – details below</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

► If you have a conflict with another course (either a class or an exam), you must contact Marybeth Miller or the General Chemistry office at least one calendar week before the exam date to discuss your options. You may be asked to provide written verification of the conflict.

• You may only use a simple, scientific calculator on exams. Calculators that can graph or solve or store equations are not allowed. See Brightspace (Exams modules) for details.

• Exam questions will be based on the Learning Objectives and labs, in addition to other course materials.

• You will have an assigned seat in Elliott Hall consisting of the level, aisle, row, and seat. Your seat assignment will be posted on Brightspace prior to Exam 1.

• Your lowest exam score or ½ your final exam score will be dropped at the end of the semester.

• Zero scores caused by absences that are excused by GAPS/MAPS/MEAPS will be handled individually. See pp. 4-5. Refer to the Absences module on Brightspace for information about requesting a make-up exam. No makeup exams are possible for unexcused absences.

Final Exam
The final exam is comprehensive and is worth 300 points. The format of the final exam will be communicated to you during the semester.

Wait until you know the date of the final exam before you make travel plans that might conflict with the exam. Final exams will NOT be rescheduled to accommodate your travel plans.

University policy on Final Exams states: “Students scheduled for more than two (final) examinations in one calendar day are entitled to reschedule any examination in excess of two. .. It is the responsibility of the student to make necessary arrangements before the last week of regularly scheduled classes.”
Determining Your Course Grade

Each of the assigned course activities for CHM 11500 is worth the number of points listed below. Before course grades are finalized at the end of the semester, the following scores will be dropped:

- your one lowest homework score
- your two lowest recitation participation scores (at least)
- your one lowest pre-lab quiz score
- your one lowest lab report score
- your one lowest exam score or ½ final exam score

The total number of points for CHM 11500 will be distributed as follows:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>130 pts</td>
<td>(best 13 of 14 assignments at 10 pts each)</td>
</tr>
<tr>
<td>Recitation Participation</td>
<td>20 pts</td>
<td>(best 10 at 2 pts each)</td>
</tr>
<tr>
<td>Prelab Quizzes</td>
<td>50 pts</td>
<td>(best 10 of 11 at 5 pts each)</td>
</tr>
<tr>
<td>Week 1 Problem Solving</td>
<td>5 pts</td>
<td>(in lab; for completion)</td>
</tr>
<tr>
<td>First Day Quiz</td>
<td>5 pts</td>
<td>(for completion)</td>
</tr>
<tr>
<td>Lab Check-In Activity</td>
<td>10 pts</td>
<td>(Week 2, in lab)</td>
</tr>
<tr>
<td>Lab Reports</td>
<td>200 pts</td>
<td>(best 10 of 11 at 20 pts each)</td>
</tr>
<tr>
<td>Exams</td>
<td>450 pts</td>
<td>(3 at 150 pts each)</td>
</tr>
<tr>
<td>Final Exam</td>
<td>300 pts</td>
<td>(comprehensive)</td>
</tr>
<tr>
<td>Sub-total</td>
<td>1170 pts</td>
<td></td>
</tr>
<tr>
<td>Dropped exam</td>
<td>-150 pts</td>
<td>(drop lowest exam score or ½ final exam score, whichever is less)</td>
</tr>
<tr>
<td>Total</td>
<td>1020 pts</td>
<td></td>
</tr>
<tr>
<td>Extra Credit</td>
<td>10 pts</td>
<td>(Adaptive assignments and goal-setting and reflection surveys on Achieve)</td>
</tr>
</tbody>
</table>

The total points available for quizzes/exams is 600. Your exam total will be determined as follows: Your points earned on the Final Exam will be divided in half and considered as separate scores, T4 and T5. These scores will be compared with your scores on Exams 1-3 (T1-3) and the lowest of these scores will be dropped (i.e., not counted into your total points). The remaining 4 scores will comprise your exam total.

Up to 10 points of extra credit will be available for adaptive assignments and goal-setting and reflection surveys on Achieve.

**Penalty for missed labs:** If you miss or fail to complete 3 labs, your final grade will be reduced by one full letter grade. If you miss or fail to complete 4 or more labs, you will receive a failing grade (F) for the course. Attending lab but not submitting a lab report is considered a failure to complete.

At the end of the semester, the total scores for all students will be arranged in numerical order, the score that corresponds to either the 99th percentile ($S_{99}$) will be determined, and then letter grades will be assigned based on this percentile score as follows:

- **A:** Total Score $\geq 0.93 \times S_{99}$
- **A-:** $0.90 \times S_{99} \leq$ Total Score $< 0.93 \times S_{99}$
- **B+:** $0.86 \times S_{99} \leq$ Total Score $< 0.90 \times S_{99}$
- **B:** $0.83 \times S_{99} \leq$ Total Score $< 0.86 \times S_{99}$
- **B-:** $0.80 \times S_{99} \leq$ Total Score $< 0.83 \times S_{99}$
- **C+:** $0.76 \times S_{99} \leq$ Total Score $< 0.80 \times S_{99}$
- **C:** $0.73 \times S_{99} \leq$ Total Score $< 0.76 \times S_{99}$
- **C-:** $0.70 \times S_{99} \leq$ Total Score $< 0.73 \times S_{99}$
This system has several advantages:

- Unlike a *curved scale*, it encourages cooperation among students because NO student is penalized when another is successful.
- Unlike an *absolute scale*, it tends to neutralize the effects of differences from one semester to another and thereby ensures that the same criteria are used to assign grades from one semester to another.

This approach to grading means that the grade you get in this course depends primarily on *your own* effort and performance. *It also ensures that all students who do well in the course will get good grades.*

- Periodically during the semester, your total points will be calculated and tentative grade cutoffs will be posted so that you can see how well you are doing in the course. Note that these tentative grade cutoffs will be based on an absolute (90/80/70/60) grading scale (i.e., earning 90% of the maximum possible points is an A, 80% is a B, etc.).
- Check all your grades on Brightspace regularly. If there are any errors or discrepancies, notify the lecture coordinator within 2 weeks of a grade update being announced.
- Save all returned graded papers until after you have received your course letter grade for CHM 11500. To resolve any discrepancies, your paper(s) will need to be reviewed.
The course schedule is on the next 2 pages.
<table>
<thead>
<tr>
<th>Week</th>
<th>Week of</th>
<th>Lecture #</th>
<th>Lecture Topic</th>
<th>Textbook</th>
<th>Labs</th>
<th>Exams</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>21-Aug</td>
<td>1</td>
<td>Introduction to CHM 11500; Review Topics</td>
<td>CH 1-5</td>
<td>MUST; Problem solving session (5 pts)</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>2</td>
<td>Review Topics</td>
<td></td>
<td></td>
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<tr>
<td>2</td>
<td>28-Aug</td>
<td>3</td>
<td>Nuclear Chemistry 1</td>
<td>CH 24</td>
<td>Lab Check-in</td>
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<td></td>
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<td>4</td>
<td>Nuclear Chemistry 2</td>
<td>CH 24</td>
<td>Lab Safety; iPad orientation; Group Member Agreement; How Do We Observe, Record and Communicate Experimental Information? (10 pt exercise)</td>
<td></td>
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<tr>
<td>3</td>
<td>4-Sep</td>
<td>5</td>
<td>Labor Day - no lecture M/T</td>
<td></td>
<td>Lab 1</td>
<td></td>
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<tr>
<td></td>
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<td>6</td>
<td>Nuclear Chemistry 3</td>
<td>CH 24</td>
<td>What Measurement Techniques Are Used in the Laboratory?</td>
<td></td>
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<td>7</td>
<td>Thermochemistry 1</td>
<td>CH 6</td>
<td>Lab 2</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>8</td>
<td>Thermochemistry 2</td>
<td>CH 6</td>
<td>How Can We Use a Physical Property to Develop a Separation Method?</td>
<td></td>
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<tr>
<td></td>
<td>18-Sep</td>
<td>9</td>
<td>Thermochemistry 3; Quantum Theory/Atomic Structure 1</td>
<td>CH 6, CH 7</td>
<td>Lab 3</td>
<td>Exam 1</td>
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<tr>
<td></td>
<td></td>
<td>10</td>
<td>Quantum Theory/Atomic Structure 2</td>
<td>CH 7</td>
<td>What Variables Affect Heat of Reaction? (Calorimetry)</td>
<td>Wed. Sept. 20 8:00 PM</td>
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<tr>
<td></td>
<td>25-Sep</td>
<td>11</td>
<td>Quantum Theory/Atomic Structure 3</td>
<td>CH 7</td>
<td>Lab 4</td>
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<tr>
<td></td>
<td></td>
<td>12</td>
<td>UV/Vis Spectroscopy/Beer-Lambert Law</td>
<td>pp. 304-5; 4.1</td>
<td>How Can We Produce a Salt from an Element? (alum)</td>
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<tr>
<td></td>
<td>2-Oct</td>
<td>13</td>
<td>Periodic Trends/Trends in Chemical Reactivity 1</td>
<td>CH 8</td>
<td>Lab 5</td>
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<td>14</td>
<td>Periodic Trends/Trends in Chemical Reactivity 2</td>
<td>CH 8</td>
<td>How Can Absorption of Light Be Used to Determine the Concentration of a Compound in Solution? (UV/Vis Spectroscopy)</td>
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<tr>
<td>8</td>
<td>9-Oct</td>
<td>15</td>
<td>October Break - no classes M/T</td>
<td></td>
<td>NO LAB</td>
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<td></td>
<td>16</td>
<td>Periodic Trends/Trends in Chemical Reactivity 3</td>
<td>CH 8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week</td>
<td>Week of</td>
<td>Lecture #</td>
<td>Lecture Topic</td>
<td>Textbook</td>
<td>Labs</td>
<td>Exams</td>
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<td>9</td>
<td>16-Oct</td>
<td>15</td>
<td>Models of Bonding 1</td>
<td>CH 9</td>
<td>Lab 6</td>
<td>Exam 2</td>
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<td>Models of Bonding 2</td>
<td>CH 9</td>
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<td>17</td>
<td>Models of Bonding 3</td>
<td>CH 9</td>
<td>Lab 7</td>
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<td>18</td>
<td>Shapes of Molecules 1</td>
<td>CH 10</td>
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<td>10</td>
<td>23-Oct</td>
<td>19</td>
<td>Shapes of Molecules 2</td>
<td>CH 10</td>
<td>Lab 8</td>
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<td>Shapes of Molecules 3</td>
<td>CH 10</td>
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<tr>
<td>11</td>
<td>30-Oct</td>
<td>21</td>
<td>Organic Chemistry 1</td>
<td>11.1-2;</td>
<td>Lab 9</td>
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<td>22</td>
<td>Organic Chemistry 2</td>
<td>11.1-2;</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>15.1-2</td>
<td></td>
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<td></td>
<td></td>
<td>23</td>
<td>Polymers</td>
<td>pp. 513-7;</td>
<td>Lab 10</td>
<td>Exam 3</td>
</tr>
<tr>
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<td>24</td>
<td>IR Spectroscopy</td>
<td>pp. 378-9</td>
<td></td>
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</tr>
<tr>
<td>13</td>
<td>13-Nov</td>
<td>25</td>
<td>Video lecture: Intermolecular Forces 1</td>
<td>12.1, 13.1</td>
<td>NO LAB</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Thanksgiving Break- no classes W, Th, F</td>
<td></td>
<td></td>
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<tr>
<td>14</td>
<td>20-Nov</td>
<td>26</td>
<td>Intermolecular Forces 2</td>
<td>12.1, 13.1</td>
<td>Lab 11</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>27</td>
<td>Intermolecular Forces 3; Concentration Terms</td>
<td>13.4</td>
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<tr>
<td>15</td>
<td>27-Nov</td>
<td>28</td>
<td>Phase Changes</td>
<td>12.2-3</td>
<td>Lab Check-out - You must attend or you will be charged a $45 failure-to-check-out fee plus the cost of replacement glassware.</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>29</td>
<td>Colligative Properties</td>
<td>13.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finals Week</td>
<td>11-Dec</td>
<td></td>
<td>Final Exam</td>
<td></td>
<td>Final Exam</td>
<td>Final Exam TBA</td>
</tr>
</tbody>
</table>

Week of Thanksgiving Break- no classes W, Th, F

What are the Molecular Interactions of Dyeing and Washing?

Lab Check-out - You must attend or you will be charged a $45 failure-to-check-out fee plus the cost of replacement glassware.

Final Exam: Wait until you know the date of the final exam before you make travel plans that might conflict with the exam. Final exams will NOT be rescheduled to accommodate your travel plans.