

CHEMISTRY 12500: Introduction to Chemistry I

Fall 2025

Course Information:

- Students are expected to attend all scheduled lectures, one recitation, and one laboratory each week:
 - Lecture meets MWF, 8:30-9:20 a.m. in WTHR 104
 - Laboratory meets on Tuesdays.
 - Recitation meets on Thursdays.
- CRN: 14361
- Instructional Modality: Face-to-face

Instructor:

Dr. Hannah Starr

Office: WTHR 157

Phone: 765-496-2691

Email: starrh@purdue.edu

Office Hours: Mon. 10:30 am – 11:20 am and Wed., 9:30 am – 10:20 am in WTHR 151

Dr. Starr is also available to meet by appointment to discuss study strategies, concerns, grades, or anything else besides content. Please reach out to Dr. Starr early in the semester if you have concerns about your performance in the course. If you wait until the end of the course, there will not be time to change the course trajectory.

Teaching Assistants:

Office Hour (WTHR 151)

Catalina Botero Carrizosa	sboteroc@purdue.edu	Thursday, 1:30pm
Jayna Enguita	jenguita@purdue.edu	Tuesday, 10:30am
Evie Renninger	erennin@purdue.edu	Friday, 12:30pm
Lydia Stone	stone153@purdue.edu	Wednesday, 2:30pm
Vivian de Toledo Krainer	vdetoled@purdue.edu	Wednesday, 11:30am

Course Catalog Description:

Introduction to Chemistry I

Credit Hours: 5.00. Principles of chemistry including stoichiometry; atomic structure and chemical bonding; properties of gases, liquids, and solids; thermochemistry; descriptive inorganic chemistry. Recommended for entering students intending to major in chemistry. One year of high school chemistry or one semester of college chemistry required. Typically offered Fall.

Prerequisites

Any of the following undergraduate math classes with a minimum grade of D: MA 15900, 15800, 16100, 16300, 16700, 16500, 15300, 15400, 14700, 14800, 22100, 22200, 16021, 22300, 22400, 16010, or 23100. Or: ALEKS Math Assessment 075 or SAT Mathematics 600 or ACT Math 26

Required Course Materials

- *Interactive General Chemistry 2.0, Atoms First*, by Macmillan Learning. This text will also work for CHM 12600.
- You are required to complete homework assignments online using the Achieve system by MacMillan, which includes the ebook version of the text.
 - Purchase Options:
 - Single Term Access – Digital Only
 - Single Term Access – Digital with Loose Leaf Textbook
 - Two Term Access – Digital Only
 - Two Term Access – Digital with Loose Leaf Textbook

CHEM 12500/12600 Achieve Purchase instructions:

1. Go to purdue.brightspace.com and login with your Purdue credentials
2. Select our course: Fall 2025 CHM 12500 - MERGE
3. Select: Content/Achieve Homework/Macmillan Course Tools Launch and follow the instructions thereafter to gain access to Achieve and the course E-Book.

If you want to purchase one-term access or two-term access:

- Click the Achieve link in Brightspace. You will be prompted with three options. Select the “Purchase Access” button and follow the steps to check out from the

student store. *****You must use the same email you use within Brightspace on the Student Store.*****

If you purchased an access code from the bookstore:

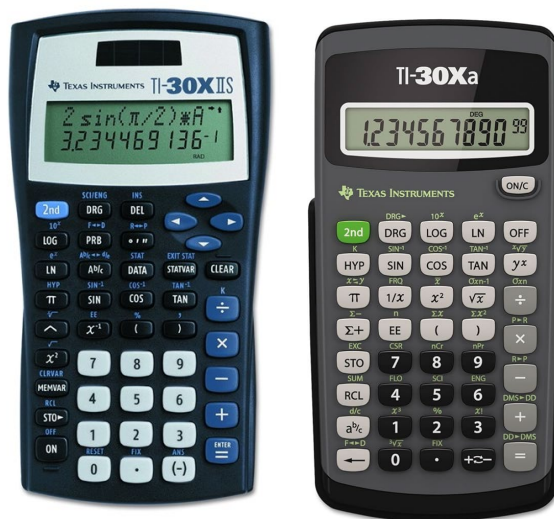
- Click the Achieve link in Brightspace. You will be prompted with three options. In the box below the ALREADY HAVE A CODE? option, type your bookstore code exactly as it appears on your access card. You will be granted full access to the course.

If you want to start a grace period (free two weeks of access to the course):

- Click the Achieve link in Brightspace. You will be prompted with three options. Select “Start a Grace Period,” check the acknowledgement box, and create an Achieve account in the student store. You will see a yellow banner at the top of your course that will count down the days remaining in your grace period. *****You must use the same email you use within Brightspace on the Student Store.*****

If you have grace period access and you want to buy full access:

- Click the Achieve link in Brightspace. Click the “Extend Access” link in the yellow banner on top of the page. You will be prompted to purchase access again. Select the “Purchase Access” button and follow the steps to check out from the student store. You can sign in with your existing Achieve account to check out.
- Scientific Calculator. There are two acceptable calculators for the course. No graphing calculators are allowed on exams, but you can use them on homework assignments and in class (though you should practice with the calculator you will use on exams). The two acceptable calculators for exams are the TI-30XIIS or the TI-30Xa (pictured below). Any other calculators will not be allowed on exams. If you are having difficulty obtaining the correct calculator, talk to Dr. Starr during the first week of class for assistance.
Calculators will not be provided to those who do not bring the correct calculator to exams.



- Access to iClicker Cloud. This is free for Purdue students and information about how to create an account can be found at this [link](#). You can use the iClicker app on your smartphone. We will test this out the first day of class and iClicker will be used for all in-class questions. You will be added to the course through the Brightspace roster, so if any action is needed after creating an account, we will do so the first day of class. You can ONLY use an account associated with your Purdue email if you want your points to be counted.
- Approved safety goggles. Safety goggles must be worn at all times in the laboratory. You can purchase splash-proof goggles at the CHAS Chemistry Storeroom on the day you come into lab, or online. If you purchase goggles online, your splash-proof goggles must meet ANSI Z87.1:2020 (+D3) standards. Failure to meet those standards will result in inadequate lab attire and you will either have to purchase a new pair or be dismissed from lab.
- Digital Materials Charge: Students enrolled in this course must purchase digital materials for lab (\$35). This digital content is required; students cannot complete the course without access to it. The materials will be released online on a real-time (approximately weekly) basis during the Fall 2024 semester. You will purchase access to the digital materials via a Purdue University Online link (<http://www.eventreg.purdue.edu/online/CHMFall35>). Payment is due by September 8, 2025.
- Note: Other materials may be provided by the instructor.

Course website

Brightspace is our course management system. You can access the course website at <http://purdue.brightspace.com>. Most class materials, including chapter reading guides and laboratory handouts, will be made available on our class Brightspace site. Brightspace will be used for your grade records.

Recitation

Recitation sessions will be conducted by your TA. These sessions are designed to help you prepare for laboratory work and to learn by completing additional practice problems with the guidance of your TA. The recitation time may also be used to review key concepts from lecture material, work on problems from the Achieve problem sets, remind students about upcoming deadlines, address questions in preparation for or to clarify after exams, and address questions regarding laboratory procedures or reports. Please come to recitation prepared with questions. Students will submit the solution to one question in recitation each week through Gradescope. This question will be solved together and due at the end of your recitation. If you do not attend recitation, you can still submit a solution to the problem, but the submission is only open during the time of your recitation. It is considered an honor code violation to share the solution with any student who did not attend recitation until all recitations for the day have ended (5:30pm).

Recitations are not recorded. There is no penalty for missing recitation if you submit the recitation assignment.

Exams

There will be three (3) midterm exams and a comprehensive final exam in this course. All midterm exams will be completed in the evening on the dates below. The final exam will be given at a time scheduled later by the university. Exam guidelines will be communicated closer to the first exam.

Midterm 1: Wednesday, 9/24, 6:30-7:30pm, ARMS 1010/B061

Midterm 2: Tuesday, 10/28, 8-9pm, PHYS 114

Midterm 3: Wednesday, 11/19, 8-9pm, PHYS 114

Course Learning outcomes

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

1. Demonstrate competency of CHM 12500 chemistry concepts through solving of numerical-based chemistry problems.
 - Methods of Evaluation: On-line homework assignments, extra practice work, in-class problems, recitation problems, and numerical-based problems on exams
2. Demonstrate a mastery of concepts, theories, and ideas of chemistry topics covered in CHM 12500.
 - Methods of Evaluation: Written explanations in extra practice work and conceptual and qualitative problems on exams

3. Connect CHM 12500 chemistry topics to real-world problems and solutions that you and others experience.
 - Methods of Evaluation: Written answers using evidence-based arguments in extra practice work and numerical and qualitative problems on exams and in class.
4. Meet the Laboratory Learning Objectives. (These learning objectives are given during each lab.)
 - Methods of Evaluation: Written lab reports.

Class Policies

- If you feel sick, do not come to class or lab.
- You may use computers or tablets only for taking notes in class. Phones can be used for iClicker Cloud or Gradescope (for recitation) only. Use of computers/cell phones/tablets or other internet connected device during class to access non-class related materials (TikTok, youtube, text messages, social media, etc.) is prohibited.
- All work must be completed individually. If two people submit the same files, both will earn a score of 0 and could be reported for academic dishonesty. Many laboratory experiments may be done in teams of two or three, however, each laboratory report should be completed individually. You are encouraged to ask about any assignments you find challenging in office hours so we can help.
- Artificial Intelligence (AI), Large Language Models (LLM), or similar generative technologies are not needed to complete this course. Their use to generate answers (written or math-based) for any homework assignments are prohibited. The use of ChatGPT or other AI agents is not banned in the class, however, it should not take the place of your own writing, and you need to ensure that you also confirm facts that are generated, because these tools do not check the accuracy of your claims. If you use an AI agent, you must specify the AI agent used, the time and date used, the prompts used to generate text, the sections containing AI-generated text, and the ideas resulting from AI use.
- In general, class lectures (audio recordings, lecture notes, and images therein) are “considered to be ‘derivative works’ of the instructor's presentations and materials, and they are thus subject to the instructor's copyright in such presentations and materials.” As such, they cannot be sold or bartered or posted online without express written permission from Dr. Starr.
- **Changing Sections / Dropping the Course / Check-Out:**

Chemistry Department Deadlines for adding or switching sections:

- Friday, August 29: last day to add the course or switch lab sections *without* instructor approval
- Friday, September 5: last day to add the course or switch lab sections *with* instructor approval (must be requested through the scheduling assistant).

University Drop Deadlines

- Monday, September 8: last day to drop a course via MyPurdue without it appearing on your record.
- Tuesday, November 25: Last day to drop a CHM 12500 with a “W”.
- A change in lab section requires the approval of Dr. Starr after the first week of classes. Note that if you change sections after you check into a lab drawer, you must check out of your old lab drawer before checking into a lab drawer in your new section.
- If you drop CHM 12500 after having checked into a lab drawer, it is your responsibility to check-out of your lab drawer during your scheduled lab period. Failure to check-out of lab will result in a fee of at least \$45, and forfeiture of the right to determine the acceptability of all lab drawer equipment.

Grading

The grade for CHEM 12500 consists of the following:

- 14 homework problem sets, scaled to 10 pts. each. Homework answers are submitted online via the Achieve website. Late submissions will be accepted with a penalty (25% off per day for up to three days), unless an extension is granted for an excused reason.
- Three midterm exams, 50 pts. each. Exams consist of a combination of multiple choice and numerical problems. Problems are both qualitative and quantitative. Make-up exams will be given for excused reasons only. Certain exam questions will earn partial credit if correct work is present.
- Laboratory: 10 pts. each. 11 laboratory experiments will be conducted with individual reports completed for each lab. Late submissions will not be accepted and missed labs are scored as a zero grade. Students who fail to complete nine labs will automatically fail the course, unless excused by Dr. Starr. Information about what constitutes a “fail to complete” is included later in this document. Students will have the opportunity to earn full credit for up to two labs by completing online labs if in-person labs are missed. See the policy below for requesting the online lab.
- Laboratory 0: 6 pts. There will be a short report to get students acquainted with Gradescope and Excel due during Week 2. This report is only worth 6 points.

- Problem sets: 10 pts. each. 2 assignments total. There will be a problem set on concentrations to help prepare you for lab completed in Week 2. Additionally, there will be a lattice energy problem set near the end of the semester. Both of these will be completed on Gradescope with some assistance during recitation.
- Test corrections: 4 pts. each. 3 sets of corrections. After each midterm exam, you will be asked to submit test corrections for all questions you missed through Gradescope. This will not change the score on your exam, but it is a separate assignment for points. Dr. Starr and the TAs are happy to help you with corrections in office hours.
- Weekly Recitation Problem: 1 pt. each, 12 recitations. Each week, you can submit the solution to a problem from recitation to earn a point. The assignment will only be open during your recitation time. If you do not attend recitation, you can still submit the solution to the question during the time of your recitation. You have to get the correct answer and show all your work to earn the point.
- In-class problems: Extra credit (~12-20 pts). Each day in class, we will use iClicker to respond to in-class questions. Each day is worth 0.25-0.5 points depending on the difficulty and the number of questions. In-class problems earn extra credit on top of the other points in the class. The total points that will be used to calculate your score (the denominator) will not change, but the points you earn from in-class problems will add to the total points earned (numerator). Since these are bonus points, they cannot be made up. Certain questions may be graded for accuracy while others are graded for completion.
- Comprehensive final exam: 100 pts. The final exam, given in December, will cover topics from the entire course, so it is important to stay on top of all content and correct any misunderstandings promptly.

Assignment	Points for each	Total Number	Total points
Achieve Homework	10	14	140
Lab Reports 1-11	10	11	110
Lab Report 0	6	1	6
Recitation Question	1	12	12
Problem Sets	10	2	20
Test Corrections	4	3	12
Midterm Exams	50	3	150
Final Exam	100	1	100
Total Points			550

- Grading Scale (% out of 550 total pts):

93.0% - 100%	A
90.0% - 92.9%	A-
86.0% - 89.9%	B+
83.0% - 85.9%	B

80.0% - 82.9%	B-
76.0% - 79.9%	C+
73.0% - 75.9%	C
70.0% - 72.9%	C-
66.0% - 69.9%	D+
63.0% - 65.9%	D
60.0% - 62.9%	D-

Below 60% F

Note: Grades are rounded to one decimal place only. There will be no curve, but there is ample opportunity to earn extra credit throughout the course by answering in-class questions.

Incompletes

A grade of Incomplete (I) will be given only in unusual circumstances. To receive an “I” grade, a written request must be submitted prior to the last lecture date and approved by the instructor. Requests are accepted for consideration but in no way ensure that an incomplete grade will be granted. The request must describe the circumstances, along with a proposed timeline for completing the course work. You will be required to fill out and sign an “Incomplete Contract” form that will be turned in with the course grades. Any requests made after the course is completed will not be considered for an incomplete grade.

Attendance

You will be responsible for all information, including assignments, policy changes, schedule changes, etc., announced in lecture or via Brightspace announcements to the class. Recordings of lectures and lecture notes will be available on our class Brightspace site.

Excused Absences

Missed work (homework, problem sets, lab, exams) will be excused, extended, or allowed for make up in the following cases:

- Grief Absence Policy (GAPS), Military Absence Policy (MAPS), Jury Duty, Parenting Leave, Medically Excused Absence Policy for Students (MEAPS): Students must work with the Office of the Dean of Students (ODOS) for any of these excused absences.

Medical Excused Absence Policy for Students (MEAPS)

- Students may occasionally have to miss class and other academic obligations due to hospitalization or emergency department visits. This policy is intended for **emergent care only (note that urgent care visits are no longer included in this policy). Emergent medical issues are those that pose a threat to loss of life or limb** (e.g., serious burns, seizures, severe cuts requiring stitches, broken/dislocated limbs or joints, head injuries). The Office of the Dean of Students will not provide notes to instructors for primary care medical appointments or routine care (e.g., overall wellness, dental care, general behavioral health care) nor occasional symptoms (e.g., pink eye, colds, flu).
- A student who has experienced a medical emergency as described above should complete the Medical Excused Absence Request Form (<https://www.purdue.edu/advocacy/students/absences.html>) as soon as possible to request that an absence notification be sent to instructors. You will be given the opportunity to make up the work missed due to a medical excused absence. Reach out to Dr. Starr for more information on requesting make-up work or deadline extensions.
- If your illness is not a medical emergency, then a missed lab can be made up with an online version (only eligible for 2 of these). Any other assignments are still due at the posted due dates. For special consideration, contact Dr. Starr. For privacy

reasons, we are prohibited from accepting medical documentation, so please do not include it.

- Other emergency external circumstances will be handled on a case-by-case basis by Dr. Starr.

If you are sick, do not come to lecture or recitation, instead, watch the lecture recording.

If you are sick, do not come to lab. Instead, inform your TA and an online version of the lab will be assigned. Note: You **MUST** notify your TA that you are sick **before** your lab period starts in order to receive an online version of the lab, or else you will receive a 0 grade for the lab. Students are only allowed to complete the online versions of two labs for unexcused reasons. If you have a third unexcused lab absence, you will automatically receive a score of 0. Please note that the due dates for lab reports for online labs are the same as the in-person labs.

In most cases, homework, labs, and tests that result from one of the above excused absences must be made up on schedule, however, an extension may be given at the discretion of Dr. Starr. ***Official accommodations for extra time, quiet testing room, etc. must be approved by the DRC.***

Certain instances are unexcused:

- being dismissed from lab for safety violations, including improper dress and goggle infractions
- arriving more than 10 minutes late for lab
- Missing lab without notifying your TA prior to the start of lab
- leaving lab early or otherwise not completing the lab project and/or report
- inadequate preparation that hinders lab participation
- not contributing constructively to the group's work in lab
- failure to submit a completed lab report (any lab report that is submitted with less than 75% completed).
- Missing a third lab after completing 2 online labs

All of the above instances result in an automatic score of 0 for a lab and are considered a "failure to complete." Failing to complete **more than 2** labs results in automatic failure of the course.

Sources of Help

There are several free sources of help for CHM 12500 students:

- Professor office hours
- TA office hours
- Chemistry Resource room – https://www.chem.purdue.edu/academic_programs/resource-room/index.html

Academic Integrity

Purdue prohibits "dishonesty in connection with any University activity. Cheating, plagiarism, or knowingly furnishing false information to the University are examples of dishonesty." [Part 5, Section III-B-2-a, University Regulations] Furthermore, the University Senate has stipulated that "the commitment of acts of cheating, lying, and deceit in any of their diverse forms (such as 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." [University Senate Document 72-18, December 15, 1972]

Please review the following resource pages:

<https://www.purdue.edu/odos/academic-integrity>

In CHM 12500, academic integrity means “doing your own work” at all times. Discussion of chemical concepts is encouraged, but sharing your answers and work in person, electronically, or on social media for the express purpose of letting other students copy your work is not acceptable. Such a use of technology does not help you learn the material and is considered academic dishonesty. Note: Changing data for a lab project to fit the perceived answer; that is, what you think the answer should be, also constitutes academic dishonesty.

All incidents of academic integrity are referred to the Office of the Dean of Students. Any violation of course policies as it relates to academic integrity will result minimally in a failing or zero grade for that particular assignment, and at the instructor’s discretion may result in a failing grade for the course. A student accused of academic dishonesty will be afforded due process as defined by Purdue University procedures. Students who observe an issue of academic integrity can report it to the Office of the Dean of Students (<https://www.purdue.edu/odos/> - see academic dishonesty report), call 765-494-8778 or email integrity@purdue.edu.

The Purdue 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”

Inclusivity and nondiscrimination

In this course, each voice in the classroom 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. This class supports individuals of all ages, backgrounds, citizenships, disabilities, sexes, education levels, ethnicities, family statuses, genders, gender identities, geographical locations, languages, military experiences, political views, races, religions, sexual orientations, socioeconomic statuses and work experiences.

A note from Dr. Starr: I strive to make each of my classes an inclusive and welcoming space. If there is anything I can do to better support you, please do not hesitate to reach out. This class is

going to have students who already know most of the material and students who know very little. If you do not already have a strong chemistry background, that alone will absolutely not prevent you from succeeding in this course. I had almost no chemistry background when I started college, so I know what that's like, and I'm here to help. You just have to tell me. 😊

Accessibility and Accommodations

Purdue University strives to make learning experiences accessible to all participants. If you anticipate or experience physical or academic barriers based on disability, you are encouraged to contact the Disability Resource Center at: drc@purdue.edu or by phone: 765-494-1247, as soon as possible.

If the Disability Resource Center (DRC) has determined reasonable accommodations that you would like to utilize in this class, you must share your DRC Course Accommodation Letter (CAL) via the AIM system *at least one week before* an exam or assessment for which accommodations are desired. Instructions on sharing your Course Accommodation Letter can be found by visiting: <https://www.purdue.edu/drc/students/course-accommodation-letter.php>

Implementation of accommodations may not be possible if we do not have access to your CAL or 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.

Email about accommodated testing in this course will usually come from Melissa Roadruck.

Safe Learning Environment

As an instructor, one of my responsibilities is to help create a safe learning environment on our campus. I also have a mandatory reporting responsibility related to my role as a faculty member. It is my goal that you feel able to share information related to your life experiences in classroom discussions, in your written work, and in our one-on-one meetings. I will seek to keep information you share private to the greatest extent possible. However, I am required to share information regarding sexual misconduct or information about a crime that may have occurred on Purdue's campus with the University. Students may speak to someone confidentially by contacting the Center for Advocacy, Response, and Education (CARE) at 765-495-CARE (2273).

Mental Health

If you find yourself beginning to feel some stress, anxiety and/or feeling slightly overwhelmed, try [Therapy Assistance Online \(TAO\)](#), a web and app-based mental health resource available courtesy of Purdue Counseling and Psychological Services (CAPS). TAO is available to all students at any time by creating an account on the [TAO Connect website](#), or downloading the app from the App Store or Google Play. It offers free, confidential well-being resources through a self-guided program informed by psychotherapy research and strategies that may aid in

overcoming anxiety, depression and other concerns. It provides accessible and effective resources including short videos, brief exercises, and self-reflection tools.

If you need support and information about options and resources, please contact or see the [Office of the Dean of Students](#). Call 765-494-1747. Hours of operation are M-F, 8 a.m.- 5 p.m.

If you find yourself struggling to find a healthy balance between academics, social life, stress, etc., sign up for free one-on-one virtual or in-person sessions in West Lafayette with a [Purdue Wellness Coach at RecWell](#). Student coaches can help you navigate through barriers and challenges toward your goals throughout the semester. Sign up is free and can be done on BoilerConnect.

If you're struggling and need mental health services: Purdue University is committed to advancing the mental health and well-being of its students. If you or someone you know is feeling overwhelmed, depressed, and/or in need of mental health support, services are available. For help, such individuals should contact [Counseling and Psychological Services \(CAPS\)](#) at 765-494-6995 during and after hours, on weekends and holidays, or by going to the CAPS office in [West Lafayette](#).

Emergencies -- If there is an emergency, call 911.

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 this course will be posted onto the course website or can be obtained by contacting the instructor or TA via email or phone. You are expected to read your @purdue.edu email on a frequent basis.

A link to Purdue's Information on [Emergency Preparation and Planning](#) is located on our Brightspace under "University Policies and Statements." This website covers topics such as Severe Weather Guidance, Emergency Plans, and a place to sign up for the Emergency Warning Notification System. I encourage you to download and review the [Emergency Preparedness for Classrooms document](#).

The [Campus Emergency Status](#) webpage is your primary online resource for current and developing PurdueALERT information and changes to the operational status of campus.

Additional Syllabus Items:

Our class Brightspace page contains various, official University materials:

- Student Support and Resources
- University policies and statements

These resources are considered to be part of this syllabus per Purdue policy.

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.

- Dress appropriately (see below).
- Goggles are required at all times in the laboratory, including during report-writing 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). You can purchase splash-proof goggles at the CHAS Chemistry Storeroom on the day you come into lab, or online. If you purchase goggles online, your splash-proof goggles must meet ANSI Z87.1:2020 (+D3) standards. Failure to meet those standards will result in inadequate lab attire and you will either have to purchase a new pair or be dismissed from lab.
- Wear gloves.
- 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 are not allowed in the labs. (No water bottles in lab!)
- 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.



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
- see-through, transparent or sheer clothing
- pants that are ripped or have holes in the fabric of *any* size
- tights or thin (translucent or transparent) leggings
- Capri or cropped pants
- shorts
- short skirts
- 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 and it will count as a missed lab.

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

TENTATIVE: Class and Laboratory Schedule:

Note: 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 this course will be communicated via announcements through Brightspace. You are expected to check Brightspace every day. **All due dates below are 11:59pm** with the exception of recitation assignments. Recitation assignments are due each day of recitation and must be submitted during your scheduled recitation period.

Week	Day	Date	Topic	Notes/Due Dates
1	M	8/25	Course Overview	
	T	8/26	No Lab	
	W	8/27	Chapter 0	
	R	8/28	No Recitation	
	F	8/29	Chapter 1	Chapter 0 Homework
2	M	9/1	Labor Day – No Class	
	T	9/2	Lab 0: Check-In, Gradescope, Excel, iPads, Safety	Safety Certification quiz must be completed by the end of lab (does not count toward course grade)
	W	9/3	Chapter 1	
	R	9/4	Recitation 1	Concentration Worksheet
	F	9/5	Chapter 1	Lab 0 report
3	M	9/8	Chapter 1	
	T	9/9	Lab 1: Worm Warm-up	
	W	9/10	Chapter 2	Chapter 1 Homework
	R	9/11	Recitation 2	
	F	9/12	Chapter 2	Lab 1 Report
4	M	9/15	Chapter 5	Chapter 2 Homework
	T	9/16	Lab 2: Density of Plastics	
	W	9/17	Chapter 5	
	R	9/18	Recitation 3	
	F	9/19	Chapter 5	Lab 2 Report
5	M	9/22	Chapter 8	Chapter 5 Homework
	T	9/23	Lab 3: How can we produce salt from an element?	
	W	9/24	Chapter 8	Exam 1, 6:30pm ARMS 1010/B061 Chapters 0, 1, 2, 5
	R	9/25	Recitation 4	
	F	9/26	Chapter 9	Chapter 8 Homework

				Lab 3 Report
6	M	9/29	Chapter 9	
	T	9/30	Lab 4: Molecular Formula	
	W	10/1	Chapter 4	Exam 1 Test Corrections Chapter 9 Homework
	R	10/2	Recitation 5	
	F	10/3	Chapter 4	Lab 4 Report
7	M	10/6	Chapter 3	Chapter 4 Homework
	T	10/7	Lab 5: Chemical Oscillation	
	W	10/8	Chapter 3	
	R	10/9	No Recitation	
	F	10/10	No Class	Lab 5 Report Chapter 3, Part 1 Homework
8	M	10/13	Fall Break	
	T	10/14	Fall Break	
	W	10/15	Chapter 3	
	R	10/16	Recitation 6	
	F	10/17	Chapter 3	
9	M	10/20	Chapter 3	
	T	10/21	Lab 6: Skittles	
	W	10/22	Chapter 3	
	R	10/23	Recitation 7	
	F	10/24	Chapter 6	Chapter 3, Part 2 Homework Lab 6 Report
10	M	10/27	Chapter 6	
	T	10/28	Lab 7: Conductometric and gravimetric determination of a precipitate	Exam 2, 8:00pm, PHYS 114 Chapters 8, 9, 4, 3
	W	10/29	Chapter 6	
	R	10/30	Recitation 8	
	F	10/31	Chapter 6	Lab 7 Report
11	M	11/3	Chapter 6	Exam 2 Test Corrections
	T	11/4	Lab 8: Which cereal contains the most iron?	
	W	11/5	Chapter 7	Chapter 6 Homework
	R	11/6	Recitation 9	
	F	11/7	Chapter 7	Lab 8 Report
12	M	11/10	Chapter 7	Chapter 7, Part 1 Homework
	T	11/11	Lab 9: Molecular shape and polarity	
	W	11/12	Chapter 7	
	R	11/13	Recitation 10	
	F	11/14	Chapter 7	Lab 9 Report
13	M	11/17	Chapter 10	Chapter 7, Part 2 Homework

	T	11/18	Lab 10: What variables affect heat of reaction?	
	W	11/19	Chapter 10	Exam 3, 8:00pm, PHYS 114 Chapters 6 and 7
	R	11/20	Recitation 11	
	F	11/21	Chapter 10	Lab 10 Report
14	M	11/24	No Class	Exam 3 Test Corrections
	T	11/25	No Lab	
	W	11/26	Thanksgiving Break	
	R	11/27	Thanksgiving Break	
	F	11/28	Thanksgiving Break	
15	M	12/1	Chapter 10	
	T	12/2	Lab 11: Molar volume of a gas	
	W	12/3	Chapter 11	Chapter 10 Homework
	R	12/4	Recitation 12	Lattice Energy Worksheet
	F	12/5	Chapter 11	Chapter 11 Homework Lab 11 Report
16	M	12/8	Chapter 22	
	T	12/9	Lab Check-out	
	W	12/10	Chapter 22	
	R	12/11	No Recitation	
	F	12/12	Final Exam Review	

A Cumulative final exam will be scheduled for the week of December 15th. If you are scheduling winter travel prior to the release of the Fall Final Exam Schedule, you should not plan to leave campus prior to December 20th.

Disclaimer: *This schedule is subject to change.*