CHM 11100 General Chemistry Course Packet
Spring 2026

Chemistry 11100 Spring 2026
(CRN 13773)
(Brightspace page: https://purdue.brightspace.com/d2l/home/1093277)

Lecture: 10:30 AM in WTHR 200 on T and Th
Lab and recitation (PSO): See your schedule!
Credit Hours: 3

Instructor: Dr. Kavita Shah, BRWN 5170B .
Email: shah23@purdue.edu
Telephone: 496-9470
Student Hours: 8:30 – 10:00 AM Tuesdays in BRWN 1152

Course Coordinator: Mrs. Leah Everly is our course coordinator. You can email her at leverly@purdue.edu or visit her in the general chemistry office in Brown 1144. She helps us run the course and supervises teaching assistants. Please contact her about any non-chemistry concerns, such as:

- Accommodations and attendance modifications from the Disability Resource Center
- Exam conflicts and accommodations
- Absences
- Questions about your teaching assistant (your TA)
- General study skills help

Supervising TA: Lisa (Yajie) Cai (cai367@purdue.edu)

Teaching Assistants: There will be approximately 8 teaching assistants to teach recitation (PSO) and lab in the course.

General Chemistry Office, BRWN 1144, 765-494-5250, genchem@purdue.edu
The General Chemistry office handles administrative details associated with the general chemistry courses.

Communicating with your CHM 11100 Team
If you need to contact more than one person, please send one message with multiple recipients rather than several individual messages. Before you hit send, re-read the email, and edit for clarity! Finally, please sign the email with your name.

We normally respond to emails within 24 hours during normal business hours, but please allow up to two business days for a response.

All communication should be through your @purdue.edu email.
Include CHM 111000 in subject line.

Course Information

Chemistry 11100 is a three-credit hour foundational general chemistry course for agriculture, health and human science, and other majors. The stated minimum prerequisite for CHM 11100 is two years of high school algebra. The course is oriented around helping you learn fundamental chemistry concepts, calculations, and laboratory skills needed for your major. We have a diversity of majors in the course and believe that it is important to relate the chemistry you are learning to the topics you will see in other courses.

Course topics include:

- measurements, mathematics, and energy changes
- atoms, isotopes, ions, and compounds.
- periodic properties and how atoms form molecules
- naming ions and compounds
- shapes of molecules
- the mole and using as a measurement in chemical reactions

There is a course-wide emphasis on development of problem-solving skills and conceptual understanding. Laboratories and recitations (PSO) are scheduled weekly and offer an opportunity to reinforce and extend what is discussed in lecture, explore new topics, and develop your hands-on laboratory skills. We strongly encourage you to attend recitation (PSO).

The Chemistry 11100 team is committed to, and focused on, helping you learn chemistry. We know that this is a foundational course for your major, and to achieve your goals and dreams, you want to do well in the course! Please read on to learn about the required materials, lecture and lab schedules, recommended ways to study, lab policies, grading, and other course policies and procedures.

Detailed learning objectives are provided for each module of the course. Broad course learning objectives are:

1. Explain the behavior of and interactions between atoms, molecules, and ions at the molecular and macroscopic levels.
2. Use standardized names and symbols to represent atoms, molecules, ionic compounds, and ions as well as chemical reactions.
3. Predict atomic structure, chemical bonding, and molecular geometry based upon scientific models.
4. Demonstrate competence in quantitative problem solving, conceptual understanding, and the ability to formulate an argument based upon evidence.
5. Demonstrate competence in collecting, analyzing, and interpreting laboratory data.
6. Use computers in data acquisition and processing and available software as a tool in data analysis.

Lecture PowerPoints, links, assignments, and other course activities and information are available on the course Brightspace page (https://purdue.brightspace.com/d2l/home/1093277). You should visit it often and sign up for notifications so you can keep up-to-date on any helpful course information and due dates.

Foundational Core: This course meets the Science requirement of the university's foundational core.

Required Materials

Textbook: We have chosen the McGraw-Hill **ALEKS** online homework program for our online digital homework platform this semester. When you purchase ALEKS access it includes an electronic copy of the textbook, *Chemistry* by Overby, 15th edition. There is also an option available for purchasing a loose-leaf version of the book directly from McGraw-Hill. See Brightspace for further information.

Lab Manual: We will use a digital laboratory manual, LabFlow, this semester and the online laboratory simulation program BeyondLabz. Purchase information will be posted in Brightspace. Please do not attempt to purchase access to these materials directly from the publishers—they must be purchased through the links provided in Brightspace!

Lab Materials: In addition to LabFlow and BeyondLabz access, you are also required to have **indirectly vented** chemical splash goggles that must be worn while in the laboratory. Goggles may be purchased in CHAS, in bookstores, or online. Goggles may not have exposed holes on the sides, top or bottom that would allow chemicals or vapors to damage the eyes (must meet the ANSI Z87.1:2020 (+D3) standard).

You should bring a notebook of your choice to lab for note taking. If you choose, you may take digital notes on your electronic device. It is important to note that you are responsible for your personal devices if you choose to use them in the lab; neither the chemistry department nor members of the CHM 111 team are responsible for any damage that may occur. There are iPads in each of the laboratories for you to use as well.

Calculator: A **simple battery-operated scientific calculator** with exponential, logarithm and square root functions is required for this course (a TI-30 type works well, but other brands are also acceptable) for the exams and the final. Two-line non-programmable calculators are allowed. Alpha-numeric and programmable calculators are not allowed for exams or the final.

Supplemental Instruction:

Supplemental Instruction (SI) is a program built around peer-led group study sessions. Our SI Leaders are undergraduate students at Purdue and know what it takes to succeed in General Chemistry.

Schedules for sessions can be found here: https://www.purdue.edu/asc/si/ and Brightspace.

Week #1 Assignments:

- **Sign up for Brightspace notifications for email & announcements**
- Purchase ALEKS 360 (homework and Overby, Chemistry, 15th edition package).
- Register for your ALEKS account if you purchased a printed code (from Bookstore).
- Complete the ALEKS Initial Knowledge Check.
- Begin the ALEKS Module 1 – Math Review. (DUE January 18 @ 11:59 pm)
- Read the Reading Assignments and Learning Objectives for Week 1.
- Begin the first ALEKS weekly homework assignment. (DUE January 23 @11:59 pm)
- Read all the information in this course packet.
- Complete the *Syllabus Quiz* by January 18 @ 11:59 pm
- Review the information in the Lab Safety Brightspace Module and complete the Safety Certification Quiz by 11:59 PM Sunday, January 18 with a score of at least 20/25.

Weekly Keys to Success:

(Also refer to the "Some Ways to Study Chemistry" on the course Brightspace page.)

- Attend lecture, recitation, and lab.
- Check Brightspace often so you know when work is due!
- Complete the reading assignment *before* lecture (see lab/lecture schedule at end of packet).
- Complete ALEKS Homework and Learning Module assignments (due dates below).
- Prepare for lab: read the relevant lab manual chapter and complete the pre-lab exercises (due dates below).
- Complete weekly lab reports (due dates below).

Weekly Assignments

During *most* weeks, you will have the following assignments:

Item	Platform	Day	Time (EDT)
Pre-Lab Assignments	LabFlow	Monday	Due 11:59 pm
Lab Reports	LabFlow	Tuesday	Due 11:59 pm
Learning Modules	ALEKS	Sundays	Due 11:59 pm
Homework	ALEKS	Fridays	Due 11:59 pm
Other Assignments	Brightspace	Sundays	Due 11:59 pm

The pace of the course is designed to help you make steady and productive progress toward the course learning objectives thus we expect all work (labs, quizzes, homework, activities and explorations, badges, etc.) to be submitted by the due date. Please avoid last-minute submissions. Extensions are not granted for last-minute technical issues that prevent you from turning in your work. **Extensions are only granted in alignment with university policies (GAPS, MAPS, MEAPS, Jury Duty, etc.) and DRC deadline and attendance flexibiity policies. Students with prearranged absences (NCAA, Professional Development, etc.) are expected to plan ahead and submit assignments by the posted deadlines.**

Overview of CHM 11100 Activities and Policies

****For more detailed information, see the course Brightspace page. ****

Brightspace

- Learning management system (LMS) for CHM 11100.
- Where we post all course resources; check this page multiple times each week.
- The course content is broken up into 3 major topics. (See course lecture schedule.)

Reading

- See the lecture schedule in the course syllabus for the reading assignments.
- Posted on Brightspace.
- *Reading your textbook before lecture and lab materials prior to lab is recommended.*

Lectures

- T and Th at 10:30 am in WTHR 200.
- Powerpoint slides for lecture posted on Brightspace.
- Lectures are recorded (Boilercast) and posted in Brightspace as they become available.

Recitation (PSO)

- Recitation (PSO) takes place each Monday (check your class schedule).
- There will be a weekly recitation guide that covers the week's lecture topics.
- You can ask questions about lab, lecture, homework, or other course content.

Homework (ALEKS)

- You will have a weekly homework assignment on the ALEKS, due Fridays by 11:59 pm.
- You will have a maximum of **three (3)** attempts to complete most homework **questions** plus a maximum of **three (3)** submission attempts for each assignment.
- New submission attempts will allow you to complete only the questions you missed in the previous attempt. You will not start the homework assignment over from scratch.
- Homework will be scored and recorded on-line; there is no hand grading or regrading.
- There will be **13** ALEKS assignments and your lowest score is dropped at the end of the semester for a total of 120 points.

Learning Modules (ALEKS)

- You will have a **six (6)** learning modules on ALEKS, due Sundays by 11:59 pm.
- These modules will help you learn and practice the main concepts you'll need to know and retain for this course and beyond.
- These learning modules require you to demonstrate mastery of specific topics. This means you will be required to correctly answer questions on a specific topic several times to prove mastery.
- The subject matter and timing will be coordinated with the course exams and will play a big role in helping you do well on the exams.

Lecture Worksheets & Surveys

There are 80 points of lecture worksheets and surveys throughout the semester plus a 10-point syllabus quiz.

Extra Credit

iClicker Cloud questions will be used during lecture to check your understanding and to help inform our teaching in real time. You may earn up to 10 extra credit points for participating in these questions.

Midterm Exams and Final

There are 3 midterm exams for CHM 11100 each worth 100 points.

- Wednesday 2/11, 8:00 PM
- Monday 3/9, 8:00 PM
- Wednesday 4/15, 8:00 PM

The final exam will take place during the week of May 4-9 with the specific time announced later in the semester. Please do not make any travel plans until you know when the final exam will take place—final exams cannot be rescheduled to accommodate travel plans.

Students with disabilities whose DRC Course Accommodation Letter (CAL) includes test accommodations must first release their CAL. Instructions on how to do this can be found here: https://www.purdue.edu/drc/students/course-accommodation-letter.php. Upon receipt of the CAL an email will be sent to your @purdue.edu email address from Melissa Roadruck (melissa@purdue.edu) that will contain all exam scheduling information. Due to the size of the class, students with testing accommodations are expected to schedule and take their examinations through the DRC's Testing Center. Students are expected to respond in a timely manner and meet all communicated deadlines to schedule their examinations with the testing center. 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.

Laboratory

- Lab attendance is required since CHM 11100 is a laboratory course. Specific information concerning attendance and makeup policies can be found in the Brightspace Absence Module.
- **You are required to complete at least 9 of the 11 scheduled lab projects (Labs 2-12) to maintain your grade in the course.**
- Lab projects are completed by either attending lab and submitting a lab report, or by submitting an approved makeup assignment following an absence.
- If you fail to complete more than 2 lab projects (not including the Excel Lab), your final grade will be dropped by one letter grade for each subsequent missed lab after 2.
- See Laboratory Expectations below for more detailed information.

Determining your Course Grade, Spring 2026

The points for each of the assigned course activities for CHM 11100 are listed below. Before course grades are finalized at the end of the semester the following scores will be dropped:

- your lowest (1) ALEKS homework score
- your lowest (1) in-class worksheet score
- your lowest (1) lab score (excluding Excel Lab 1)
- your lowest exam score (or ½ of your score on the final exam)

The total number of points for CHM 11100 will be distributed as follows:

ALEKS Homework	120 pts (best 12 of 13 @10 pts each)
ALEKS Learning Modules	120 pts
Labs	270 pts (Excel lab at 20 pts + best 10 of 11 Labs 2-12 @ 25 pts each)
Exams	300 pts (3 @ 100 pts each)
Final	200 pts
Lecture Worksheets & Syllabus Quiz	90 pts (quiz + best 8 of 9 worksheets @10 pts each)
Subtotal	**1,100 pts**
Drop (1) exam or ½ final	**−100 pts**
Total	**1,000 pts**

After the Final Exam your course grade will be based on the following scale:

A: 900 pts and above
B: 800 – 899 pts
C: 700 – 799 pts
D: 600 – 699 pts
F: 0 – 599 pts

If you fail to complete more than 2 lab projects (not including the Excel Lab) by missing laboratory or being asked to leave laboratory, your final grade will be dropped one letter grade for each subsequent incomplete lab. (If you fail to complete 3 labs, your letter grade will drop by one full letter, if you fail to complete 4 labs, it will drop by two full letter grades.)

To resolve any discrepancies, your assignments will need to be reviewed. At the discretion of the professors, there may be extra credit assignments in the course.

Laboratory Expectations

Laboratory exercises are an integral part of CHM 11100 and are an opportunity for you to get hands-on with the chemical concepts discussed in the lecture. We will be using a digital Lab Manual from LabFlow and the BeyondLabz laboratory simulation program that you will need to purchase using specific links that will be provided at the end of the second week of class.

- Lab attendance is required since CHM 11100 is a laboratory course. Specific information concerning attendance and makeup policies can be found in the Brightspace Absence Module.
- **You are required to complete at least 9 of the 11 scheduled lab projects (Labs 2-12) to maintain your grade in the course.**
- **Lab projects are completed by either attending lab and submitting a lab report, or by submitting an approved makeup assignment following an absence.**
- **If you fail to complete more than 2 lab projects (not including the Excel Lab), your final grade will be dropped by one letter grade for each subsequent missed lab after 2.**

  The following will result in a score of zero and constitute a Failure to Complete

  - being absent from lab and not submitting an approved lab makeup assignment
  - being dismissed from lab for an incomplete Safety Certification (score <20/25)
  - being dismissed from lab for safety violations, including dress and goggle violations
  - arriving more than 10 minutes late
  - leaving lab early or otherwise not completing the lab project
  - not recording appropriate data and/or observations during lab
  - failure to submit a lab report, even if you attended the lab

- **You must complete the online safety certification in Brightspace with a score of 20/25 or better by 11:59 pm on Sunday, January 18, 2026.** You may not engage in in-person laboratory activities if you have not completed the safety certification.
- Follow all lab safety regulations (see below). These regulations may seem inconvenient, but they are **necessary for your safety and the safety of others in lab**.
- You will be sharing laboratory equipment with the students in the laboratory. Students in CHM 11100 have a history of functioning as a responsible community. Your lab partners will depend upon your commitment to keeping the equipment clean and in good working condition.
- Before lab, read the experiment and attend recitation (PSO) to help you prepare.
- Complete the pre-lab exercises in Labflow before coming to lab. Pre-labs are due at 11:59 pm on the night before your lab
- Arrive on time, properly dressed, and prepared for lab work. If you arrive at lab more than 10 minutes late or improperly dressed, you will be asked to leave the lab, and will receive a score of zero. This is considered a failure-to-complete.

- Endeavor to work as an effective member of the team.
- Your lab report will be completed online. You should make sure to always:
  - Label graphs and tables.
  - Use the data you collected for the calculations and analysis.
  - Use correct units of measurement and significant figures.
  - Use chemical terms and concepts correctly.
  - Ensure results and conclusions are consistent with your data and observations.
- Lab reports are due at 11:59 pm on the day of your lab
- You will be able to review your graded lab reports online within about 1 week after the due date. If you have questions about your grade, speak first with your TA. If you still have questions after speaking with your TA, please contact one of the supervising TAs.
- Failure to check out of your lab drawer at the end of the course, or if you drop the course and do not check out of your lab drawer, results in a $45 Failure to Check Out (FTCO) fee + cost of replacement glassware being added to your account. In other words, it **costs a minimum of $45+ if you do not check out** of your laboratory drawer.

Lab Safety Regulations

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).
- Wear gloves when specified. Nitrile (non-latex) gloves will be provided in the laboratory. Gloves must be removed before exiting the laboratory
- Food and beverages are not allowed in the labs. **(This includes water bottles.)**
- 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.
- 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, socks, and shoes) is required. Chemistry department regulations state that you must wear clothing in the laboratory that protects your skin. Your clothing must **cover you from your neck (collarbone) to your ankles (thus, you need socks, not footies, SOCKS)** 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 (this will also count as a failure to complete a lab).

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 **leggings**
- capri or cropped pants
- shorts

- skirts (unless they extend to the floor)
- open-toed and/or open-heeled shoes (including Crocs, Ugg-style slippers, or other clogs)
- sandals (with or without socks)
- ballet flats, slippers, moccasins, **or any shoe that doesn't cover the entire top, toe, and heel of your foot, with or without socks**

If you come to lab wearing anything in the list above, you will be sent home and you will receive a zero for that lab, constituting a Failure to Complete.

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

Course Activities, Policies and Procedures

Studying Chemistry
Expect to spend at least 8-12 hours per week on chemistry. This time includes reading course materials, attending lectures, watching demonstrations, completing homework, activities and explorations, lab assignments, and studying for exams.

Sources of Help
There are several **free** sources of help for CHM 11100 students includiing professor office hours, TA office hours, Chemistry Resource Room, and SI sessions.

CHM 111 Absence Policies
Attendance in lecture, lab, and recitation/PSO is key for success in the course.

CHM 111 absence policies, along with the procedures for requesting makeup work and deadline extensions, are explained in the Brightspace Absence Module. Please read the information in the module and contact Leah Everly (leverly@purdue.edu) with any questions or concerns. Please note that it is your responsibility to be familiar with the information in this module so you understand the steps to take should you need to miss class.

Grief Absence Policy for Students (GAPS)
If you experience the death of a family member or close friend, notify the Office of the Dean of Students at 765-494-1747 (odos@purdue.edu). See the Brightspace Absence Module for more information and links to request makeup work.

MAPS Absence Policy for Students (MAPS)
If you are required to perform mandatory military training, notify the Office of the Dean of Students at 765-494-1747 (odos@purdue.edu). See the Brightspace Absence Module for more information and links to request makeup work.

Medically Excused Absence Policy for Students (MEAPS)
Students experiencing an absence due to hospitalization or emergency department visits should notify the Office of the Dean of Students at 765-494-1747 (odos@purdue.edu). This policy is intended for **emergent care only (note that urgent care visits are NOT included in this policy). Emergent medical issues are those that pose a threat to loss of life or limb.** The Office of the Dean of Students will not provide documentation 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). If your illness is not a medical emergency, then your missed work will be handled either by the One Free Lab Makeup policy or the dropped score policy. For special consideration, contact Leah Everly (leverly@purdue.edu). Please note that for privacy reasons we are prohibited from accepting medical documentation, so do not include it. See the Brightspace Absence Module for more information and links to request makeup work.

Absences Due to University Sponsored Activities
If you are an NCAA athlete, have a professional development opportunity, or a required university sponsored activity related to your course of study, you should provide your documentation to Leah Everly (leverly@purdue.edu) as far in advance as possible to request approval and the opportunity to make up in-person work such as a lab report or exam. Any online assignments such as prelabs or ALEKS homework must still be submitted by the posted deadlines. See the Brightspace Absence Module for more information and links to request makeup work.

Other Absences
While absences other than those described above are considered unexcused, we understand

that illnesses and other life situations might occasionally prevent you from attending a class session or submitting an assignment. **Our primary method of addressing missed work due to unexcused absences is our dropped lowest score policy**. At the end of the semester, the lowest score in each grade category (lab, homework, and exams) is dropped. This allows all students to miss one lab, exam, etc. without jeopardizing their final grade in the course. Additionally, all students are given the opportunity to request one free lab report makeup to account for an unexcused lab absence. This request must be submitted through the Brightspace Absence Module before the time your lab begins.

Changing Sections/Dropping

University/Departmental Deadlines:

Fri. Jan 16	last day to **add** a class or switch lab sections *without* instructor approval*	End of Week 1
Fri. Jan 23	last day to **switch** lab sections *with* instructor approval* and last day to **add** a class *with* instructor approval*	End of Week 3
Fri. Jan 30	last day to **switch** from another CHM course to CHM 11100 *with* instructor approval*	End of Week 4
Mon Jan 26	Last day to **drop** a class without it appearing on your transcript:	End of week 2
Thurs April 16	Last day to **drop** a class with a grade of "W"	End of Week 13

**All schedule changes should be initiated through the Scheduling Assistant on My Purdue. Changes requiring instructor approval are then forwarded to the department for consideration.*

Leaving the Course: If you change sections, drop the course, or withdraw from the university on or after February 9, 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. In other words, you will be charged for all equipment that is unacceptable (dirty, broken, chipped, missing, etc.).

Adding the Course/Late Registration: Students are usually not permitted to add CHM 11100 after week 2 of the semester (Friday, September 5). Notify the course coordinator (Mrs. Leah Everly, leverly@purdue.edu) within 24 hours of adding the course if you register late.

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 11100 will be posted on the course Brightspace site or can be obtained by contacting the instructors or TAs via email or the General Chemistry office via phone at 765-494-5250. You are expected to read your @purdue.edu email on a frequent basis.

Again: You are expected to read your @purdue.edu email on a frequent basis.

- **"Shelter in Place"** means seeking immediate shelter inside a building or University residence. This course of action may need to be taken during a tornado, earthquake, release of hazardous materials in the outside air, active shooter, building intruder, or a civil disturbance. If you hear the **All Hazards Outdoors Emergency Warning Sirens** or are notified via text or other means, immediately go inside a building to a safe location and use all communication means available to find out more details about the emergency. **Remain in place** until police, fire, or other emergency response personnel provide additional guidance or tell you it is safe to leave. There is no "all safe sirens;" the notification will come via text, internet, or email announcement.

- In the case of a major campus emergency involving a shelter-in-place, **all** laboratory experiments will be halted while students shelter in lab. Students' lab grades will **not** be penalized in this situation.

Accessibility and Accommodations:

Purdue University is committed to making learning experiences as accessible as possible. If you anticipate or experience physical or academic barriers based on disability, you are welcome to let us know so that we can discuss options. You are also encouraged to contact the Disability Resource Center at: drc@purdue.edu or by phone: 765-494-1247.

If you require accommodations to access course activities or materials, the accommodations must be described and approved by Disability Resource Center, Young Hall Room 830, 302 Wood Street, 494-1247, drc@purdue.edu, www.purdue.edu/drc . These accommodations are then sent to the professors and can be accessed by the professors online.

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 who fail to respond and fail to schedule their exams may not be able to have all of their accommodations met. Note: Emails about accommodated testing for CHM 11100 will come from Melissa Roadruck, melissa@purdue.edu.

If you have any questions about your accommodations, please contact Leah Everly (leverly@purdue.edu).

Academic Integrity Statement and Consequences.

Academic integrity is one of the highest values that Purdue University holds. Individuals are encouraged to alert university officials to potential breaches of this value by either emailing integrity@purdue.edu or by calling 765-494-8778. While information may be submitted anonymously, the more information that is submitted provides the greatest opportunity for the university to investigate the concern." Please read http://www.purdue.edu/odos/osrr/academic-integrity/index.html.

In CHM 11100, academic integrity means **doing your own work** at all times. Discussion of chemical concepts and problem-solving methods 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 and is considered academic dishonesty.

Using online resources such as Chegg to gain answers to any graded assignment (including homework, labs, quizzes, activities, and explorations, etc.) is *not* allowed. Posting any course materials to websites is a violation of copyright laws and is not allowed. Instructors can obtain user information from Chegg and other sites when inappropriate course material is posted and investigate it.

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. 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.

Artificial Intelligence (AI) Usage Policy in CHM 11100

Artificial intelligence (AI) and large language models (LLMs) such as ChatGPT, Bard, Claude, etc., can assist with explanations, suggestions, and brainstorming ideas. While these tools can be highly useful when employed correctly, they should be viewed as supplements to your learning rather than replacements for your creativity, critical thinking, or judgment. Remember that AI does not differentiate between fact and fiction, and the information it provides can be inaccurate or incomplete.

Authorized AI Usage by Students in CHM 11100:

In CHM 11100, you are encouraged to use AI for:

- Generating additional study questions and problems,
- Creating "quizlets,"
- Assisting with editing and proofreading your written work,
- Generating and exploring examples of specific chemistry concepts to enhance your learning.

If you use AI as part of any submitted work in this course, you must explicitly describe how you used it and provide a link to your chat history.

Prohibited AI Usage by Students in CHM 11100:

The use of AI tools to obtain answers for graded assignments (including activities, labs, and ALEKS homework) **or to cut, paste, and submit AI-generated content as your own work is strictly forbidden**. Such actions are considered cheating and plagiarism. If your use of AI is suspected of plagiarism, I will contact you to discuss acceptable use and potential penalties. If you are unsure whether a specific use of AI is acceptable, please ask for clarification.

AI Usage by Your Instructor:

Throughout the semester, we will use AI tools to sort and categorize some of your coursework, including graded discussion posts and exams. Your exams will be entered into Gradescope, a university-approved online grading tool. We do not use Gradescope as a "black box" tool; your instructor, course supervisor, or TA supervisor will oversee and ensure the quality of the grading process. Please note that all free-response questions are hand-graded by our team. You will access Gradescope via an instructor-provided link within Brightspace, which ensures that all your personal data (such as name and PUID) remains within Purdue's systems. Any course work entered into third-party AI tools (such as ChatGPT) will not include personally identifiable student information.

If we need to share data regarding your interactions with AI in the course (e.g., for a research study on student use of AI tools), we will obtain your individual consent and the University will oversee our activities.

Purdue Honor Pledge

We support and affirm the academic integrity of Purdue in accordance with the Purdue Honors Pledge:
"As a Boilermaker pursuing academic excellence, I pledge to be honest and true in all that I do. Accountable together – we are Purdue."
See: https://www.purdue.edu/provost/teachinglearning/honor-pledge.html

Diversity Welcome

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, disabilities, education, ethnicities, family/parental statuses, genders, geographical locations, languages, military experience, political views, races, religions, sexual orientations, socioeconomic statuses, and work experiences.

Nondiscrimination Statement

Purdue university is committed to maintaining a community which recognizes and values the inherent worth and dignity of every person; fosters tolerance, sensitivity, understanding, and mutual respect among its members; and encourages everyone to strive to reach his or her own potential. In pursuit of its goal of academic excellence, the University seeks to develop and nurture diversity. The University believes that diversity among its many members strengthens the institution, stimulates creativity, promotes the exchange of ideas, and enriches campus life. Purdue's nondiscrimination policy: https://www.purdue.edu/purdue/ea_eou_statement.php.

Mental Health and Wellness Statement

If you find yourself beginning to feel some stress, anxiety and/or feeling slightly overwhelmed, try WellTrack**.** Sign in and find information and tools at your fingertips, available to you at any time.

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 am- 5 pm.

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 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 completely free and can be done on BoilerConnect. If you have any questions, please contact Purdue Wellness at evans240@purdue.edu.

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 on the second floor of the Purdue University Student Health Center (PUSH) during business hours.

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 am-5 pm Monday through Friday. Students may submit requests for emergency assistance in the form of an emergency loan or funds from the Critical Needs Fund.

The campus also has a food pantry open to the entire Purdue community: *The ACE Campus Food Pantry*

Policy on Children in the Classroom

Currently, Purdue does not have a formal policy on children in the classroom. This policy reflects our own beliefs and commitments to our students who happen to also be parents.

1. Children and babies are not allowed in the laboratories in CHAS.
2. Babies and/or children are welcome in lecture at any time.
3. For older children and babies, minor illnesses and unforeseen disruptions in childcare

can put parents in a difficult position. Occasionally bringing a child to class to cover gaps in care is acceptable (but it is not meant to be a long-term childcare solution).

4. If you bring your child or baby to lecture in WTHR 200, please sit close to the door (likely at the bottom of the lecture hall), so if your little one(s) need special attention and is disrupting learning for other students you may step outside until the need is met.
5. We understand some (but not all!) of the struggles you are facing. We hope that you will feel comfortable disclosing your student-parent status to us and we are happy to problem solve with you in a way that makes you feel supported as you strive for a school-parenting balance.

Course Evaluation

Toward the end of this semester, you will be provided with an opportunity to give feedback on this course and your instructor. Purdue uses an online course evaluation system. You will receive an official email from evaluation administrators with a link to the online evaluation site and will receive a prompt to complete the survey when you login to Brightspace. Your participation is an integral part of this course, and your feedback is vital to improving education at Purdue University. We strongly urge you to participate in the evaluation system because it helps us improve the course!

Disclaimer

This syllabus is subject to change. You will be notified of any changes as far in advance as possible via an announcement on Brightspace. Monitor your Purdue email daily for updates.

For details about other Purdue University policies, including academic integrity, class attendance and absence reporting, emergency, nondiscrimination, and disability services, see the course Brightspace page.

CHM 11100 Course Schedule
Spring 2026

Colors indicate Topics

- Topic 1: Fundamentals, atoms, bonding, and naming (4 wks)
- Topic 2: Structure, concentration, reactivity (6 wks)
- Topic 3: How much can be made and how much energy is absorbed/released? (6 wks)

Week	Date	Lecture Topic	Reading (textbook)	Laboratory (Labflow laboratory manual)	Other
1	Week of Jan 12	Course overview Scientific Notation; Significant Figures; Unit Conversion Practice, Dimensional Analysis (*You are responsible for working through sections 1.1-1.7; 2.1-2.2.*)	Chapter 1 1.8-1.9 Chapter 2 2.1-2.2	**Check-in and Lab 1** Check In / Introduction to Excel	
2	Week of Jan 19	Atomic Number & Mass; The Periodic Table, EM Radiation; Orbitals; Electron Configuration; Valence & Core Electrons	Chapter 2 2.3-2.4 Chapter 7 7.1, 7.8-7.9	**No Lab—Compensation for Evening Exams**	
3	Week of Jan 26	Periodicity of Electron Configurations; Electron Configuration of Ions Atomic & Ionic Size; Ionic & Covalent Bonding	Chapter 8 8.2, 8.3	**Lab 2** Intro to Lab Techniques, Part I	
4	Week of Feb 2	*Naming Molecular/Ionic Compounds, Acids Practice* Ionic & Covalent Bonding; Electronegativity	Chapter 2 2.5-2.7 Chapter 9 9.1-9.2 9.4-9.5	**Lab 3** Measuring Density	
5	Week of Feb 9	Lewis Structures Resonance; *Lewis Structure Practice*	Chapter 9 9.6, 9.8	**Lab 4** Intro to Lab Techniques, Part II	**Exam 1 Wednesday 2/11 8:00 PM**

Week	Date	Lecture Topic	Reading (textbook)	Laboratory (Labflow laboratory manual)	Other
6	Week of Feb 16	Polarity; *Shapes of Molecules Practice* Atomic & Molecular Mass; Avogadro's Number; Moles	Chapter 10 10.1-10.2 Chapter 3 3.1-3.3	**No Lab**	
7	Week of Feb 23	Using Moles; Percent Composition *Grams/Moles/Molecules Practice*	Chapter 3 3.5	**Lab 5** Molecular Geometry and Polarity	
8	Week of Mar 2	Solutions; Concentration and Dilution How Light Interacts w/Matter; Spectroscopy	Chapter 4 4.1, 4.5 Chapter 12 12.3	**Lab 6** Isolation of Fat from Cookies and Potato Chips	
9	Week of Mar 9	Chemical Reactions and Equations Precipitation Reactions; Net Ionic Equations	Chapter 3 3.7 Chapter 4 4.2	**Lab 7** Electrolytes and Non-electrolytes	**Exam 2** **Monday 3/9** **8:00 PM**
10	Week of Mar 16	**No Lecture** **Spring Break**		**No Labs** **Spring Break**	
11	Week of Mar 23	Acid-Base Reactions; Redox Reactions	Chapter 4 4.3-4.4	**Lab 8** Chemical Interactions	
11	Week of Mar 23	Quantities in Chemical Reactions	Chapter 3 3.8		

Week	Date	Lecture Topic	Reading (textbook)	Laboratory (Labflow laboratory manual)	Other
12	Week of Mar 30	Solution Stoichiometry *Solution Stoichiometry Practice*	Chapter 4 4.7	**Lab 9** Techniques to Determine Concentration - Titrations	
13	Week of Apr 6	Energy Changes in Reactions Stoichiometry and Energy Problem Solving	Chapter 6 6.1, 6.4	**Lab 10** Techniques to Determine Concentration - Spectroscopy	
14	Week of Apr13	Specific Heat and Calorimetry	Chapter 6 6.5	**Lab 11** Online Thermochemistry Lab	**Exam 3 Wednesday 4/15 8:00 PM**
15	Week of Apr20	*Stoichiometry Practice* Limiting Reactants	Chapter 3 3.9	**Lab 12** Chemical Reactions and Heat Changes	
16	Week of Apr27	Limiting Reactants; Percent Yield *Limiting Reactant/Percent Yield Practice*	Chapter 3 3.10	**Mandatory Lab Checkout** (safety goggles and proper attire required!)	
17	**Week of May4**	**Final Exam (date / time to be announced midsemester by university)**			