

CHEM 100: Preparation for General Chemistry – Fall 2026

COURSE INFORMATION

Lecture Time/Location

1:00 to 1:50 am Mon, Wed & Fri in Storm Hall West 12 (SHW-12)

Lab Times/locations

Your schedule lists your lab section time and location; labs meet in Chemical Sciences Laboratory (CSL) on the 5th floor.

Modes of Instruction

The learning management system (LMS) for both lecture and labs will be Canvas (<https://sdsu.instructure.com/courses/190681/modules>)

In-class lecture will be recorded through Mediasite and embedded in Canvas. Exams are in-person and homework will be administered online.

In-person lectures and laboratories. Attendance is **required** for lab sessions. Lab teaching assistants (TAs) will take attendance during each lab session.

Instructor Office Hours

Tuesdays from 9:30 to 11:00 in CSL322

Wednesdays from 9:30 to 11:00 in CSL322

TAs and tutors will be available for in-person TA office hours in the Math & Science Learning Center, which is in Love Library, Room 328 to assist you with any questions. You can ask to see a tutor using this link for [MSLC Tutoring Hours](#).

Course Contacts

Please include your full name, RedID, CHEM 100, and section number in your email.

Instructor: Dr. Peter van der Geer

Email: pvanderg@sdsu.edu

Course Coordinator: Prof. Laurie Clare

Email: lclare+chem100@sdsu.edu

Contact for all questions related to **waitlists, labs, or course assignments**. Your question may be directed to the instructor.

Tech Coordinator: Prof. Alex Hofler

Email: ahofler@sdsu.edu

Contact her for all **technical** questions related to the **course, homework or other non-lab issues**. She may direct your question to the instructor or coordinator.

When emailing, please allow 24 hours for a response. We will respond as soon as we can during business hours, but may not be checking email after hours, on weekends, or during holidays.

Chem 100 Waitlist

Waitlisted students should email the CHEM 100 Lab Coordinator, Prof. Laurie Clare Email: lclare+chem100@sdsu.edu as soon as possible and provide your name and ID number. Continue to go to lecture until you are added, you can ask to be added to the Canvas course. You cannot attend lab until you have been removed from the waitlist.

Dropping the Course

It is your responsibility to follow university policies regarding Cr/NC, drops, withdrawals, and incompletes.

The last time to add/drop or change grading basis is **Feb 2 at 11:59 pm**.

Technology Requirements

A computer and stable internet connection will be needed for Aktiv and Labflow online homework. A computer/tablet/phone is needed for Top Hat regarding class participation and pre-class reading. Either a graphing and non-graphing scientific calculator can be used for exams. You will not be allowed to use your phone for exams. If you need to borrow a computer, contact SDSU Economic Crisis Response Team for technology support at sdsu.edu/ecrt

LAND ACKNOWLEDGMENT

For millennia, the Kumeyaay people have been a part of this land. This land has nourished, healed, protected and embraced them for many generations in a relationship of balance and harmony. As members of the San Diego State University community, we acknowledge this legacy. We promote this balance and harmony. We find inspiration from this land, the land of the Kumeyaay.

DIVERSITY AND INCLUSION

Science is a fundamentally human endeavor and benefits from the inclusion of numerous diverse voices and perspectives. It is important that everyone in this class feels welcome and able to participate fully. Therefore, discrimination or harassment in any form or for any reason is not tolerated. This course is designed with diversity, equity, and inclusion in mind and these principles should be reflected in all interactions between students, teaching assistants, instructional staff, and faculty. Please report any situations or behaviors that do not meet these standards so that we can address them and find a solution to make this a safe and supportive environment for everyone.

It is important that all students in this class feel welcome and have an equal opportunity to learn. Throughout the course we will incorporate real-world examples of chemistry and discuss the social and historical contexts in which chemistry developed as a scientific field. Students are encouraged to reflect on how chemistry impacts them and their communities while being respectful of the unique experiences of other students.

Suggestions about how to improve the value of diversity and inclusion in this course are encouraged and appreciated.

COURSE MATERIALS – REQUIRED

Day1Ready

All required materials (except for the lab manual) for this class are available in digital format by the first day of classes and are free up until **the drop date at 11:59 pm February 2nd, 2026**. After this date, your SDSU student account will be charged a flat rate of \$21.75/unit.

Please visit Day1Ready for additional information about pricing digital subscription duration, print add-ons, opting out, and other frequently asked questions. Through Day1Ready you will have access to the textbook, Aktiv online homework, Top Hat, the Labflow software for lab report submission and purchase of the physical lab manual.

You may also choose to opt out of Day1Ready and purchase your course materials yourself. To do so, visit <https://ezbooks.sdsu.edu/D1R> and sign in with your SDSU account. Course materials can be obtained through the bookstore or directly from the publishers for the prices listed below.

Top Hat Pro: \$33, Aktiv Chemistry: \$45, Labflow: \$77

Textbook

Chemistry: Atoms First 2nd Edition (OpenStax Textbook).

You will have access through your Top Hat account and can also access freely online <https://openstax.org/details/books/chemistry-atoms-first-2e>. Note that your instructor may have edited the text, so the Top Hat version should be your primary reference.

Lab Manual

Chem 100L: Preparation for General Laboratory Manual, Chemistry Dept. Printed by Catalyst Education, Fall 2025 – Spring 2026.

Physical copies of the lab manual will be distributed to all enrolled students while in lab during Week 3.

Pre-lab assignments and post-lab reports will be submitted online using Labflow software. Instructions for using Labflow are posted in Canvas.

Lab Equipment

You will need American National Standards Institute (ANSI) Z87 - Safety glasses (can be purchased at SDSU bookstore), nitrile gloves (can be purchased at the SDSU bookstore or available at drugstores such as CVS and Walgreens), matches or butane lighter, and a flame-resistant lab coat (blue) or lab apron (yellow).

Do NOT purchase the white lab coat in the bookstore, it is not flame resistant.

Lecture Engagement

Top Hat will be used for pre-class reading assignments and for in-class participation during the lecture period. Dr van der Geer will engage students with the course material in real time. Students will then respond with a smartphone, iPad/tablet, or laptop. Instructions for using Top Hat are posted in Canvas.

Online Homework

Aktiv will be used for weekly online homework assignments, there are 10 weekly homework assignments. Aktiv review quizzes will be used to prepare for exams. There will be one review quiz for each exam for a total of 3 review quizzes. The lowest homework assignment score will be dropped. Instructions for using Aktiv are posted in Canvas.

Additional Items

We recommend the Casio fx-300ms-plus scientific calculator for this course. You may use any non-graphing scientific calculator or a graphing calculator if you prefer for exams. We reserve the right to check your graphing calculator for stored information that would help you on the exam.

STUDENT LEARNING OUTCOMES

Course Description

Preparation for general chemistry. Emphasis on conceptual understanding of chemical principles, quantitative problem solving, and skills needed for success in general chemistry course and laboratory. Not open to students with credit in CHEM 200.

- This course fulfills the GE for Natural Sciences and Quantitative Reasoning.
- Course prerequisites: Strong working ability with high school level algebra.

Student Learning Outcomes (SLOs) are aligned with the Chemistry & Biochemistry Department [Curriculum Map](#) Degree Learning Outcomes (DLOs)

1. Describe, recognize, draw, and name important classes of atoms, functional groups, and molecules. (Nomenclature & Structure)
2. Describe the atomic and subatomic structure and properties of matter. (Atomic Structure)
3. Describe the origin and properties of chemical bonding and the influence on structure and properties of the molecules. (Molecular Structure)
4. Describe how the macromolecular properties of matter are determined by the molecular characteristics. (Molecules to Macro)
5. Predict the outcome of, and describe the mechanisms for, various chemical reactions. (Reactions)
6. Demonstrate the ability to quantify and interpret the reliability of measured physical and chemical properties of molecules and mixtures employing dimensional and appropriate statistical analysis. (Calculations)
7. Develop proficiency with modern instrumentation and techniques used in chemical laboratories (Lab Technique)
8. Recognize that the field of chemistry has historically centered knowledge from limited groups of people and identify contributions from more diverse scientists (Diversity, Equity, Inclusion)

ESSENTIAL STUDENT INFORMATION

For essential information about student academic success, please see the [SDSU Student Academic Success Handbook](#).

- SDSU provides disability-related accommodations via Student Disability Services (SDS) (sds@sdsu.edu | <https://sds.sdsu.edu/>). Please allow 10-14 business days for SDS to process your SDS application. SDS students are responsible for following Testing Accommodations Center (TAC) guidelines in making appointments for exams. Exams will be available at TAC only during class lecture times.
- Religious Holidays: Please notify the lab coordinator within the first two weeks of class of any planned absences from exams, quizzes, or labs due to religious holidays so that we can arrange some reasonable accommodation.
- Students are provided with an SDSU Gmail account, and this SDSU email address will be used for all communications. Per [University Senate policy](#), students are responsible for checking their official university email regularly.
 - All communication regarding this course should occur through official SDSU email accounts. The course instructor and coordinators will be available via email to answer questions or to schedule meetings. Please allow at least 24 hours for a response, longer over weekends and holidays. To ensure a prompt response include **CHEM 100, 1:00 PM** in the subject line and make sure to provide your full name and lab section. You will not receive a response if you do not use your sdsu.edu address.
- Class rosters are provided to the instructor with the student's legal name. Please let me know if you would prefer an alternate name and/or gender pronouns.
- This course involves the use and handling of hazardous materials. Before conducting any experiments, you must complete the following requirements:
 - Lab Safety Training and the Safety Training Acknowledgment Survey in the Hazardous Materials and Hazardous Equipment in Instructional Course Module of our Canvas LMS. Worth 3 points
 - An in-person safety quiz during the Week 3 lab session. Worth 12 points
- You must be enrolled in one laboratory section as well as lecture. You must attend the laboratory section in CHEM 100 for which you are enrolled. Never attend a lab session that is not on your class schedule, the TA will not let you in.
- **Academic honesty: DO NOT cheat!** Cheating is the actual or attempted practice of fraudulent or deceptive acts for the purpose of improving one's grade or obtaining course credit; such acts also include assisting another student to do so. The penalty for cheating and plagiarism is an F for the course and possible expulsion from the University. Any use of generative AI (like ChatGPT) not approved by the instructor constitutes misuse and is violation of course policy on academic dishonesty and be subject to discipline under the terms of the [SDSU Student Code of Conduct](#) and will be reported to the Center for Student Rights and Responsibilities. It is important to do your own work as you will need to learn the material in this course and, more importantly, develop the problem-solving skills required of this course to be prepared for upper division coursework and eventually a career.
- Do not use your lab partners data to submit a lab assignment when you did not attend the lab. Do not forge your TA's initials onto your post lab work. If you do so, you will receive an F for this course and your name in a report will be submitted to Student's Rights and Responsibilities where your fraudulent action will be on record.

COURSE DESIGN: MAJOR ASSIGNMENTS AND ASSESSMENTS

Lecture Assignments (Aktiv Homework and Exam Reviews)

Aktiv Homework has hard deadlines and no individual extensions will be granted. There are 10 homework assignments. The one with the **lowest score will be dropped**. They are denoted in Aktiv by the week they are due and the chapters they cover, e.g. "Week 2 Aktiv HW (Ch 1)."

- It is in your best interest to complete all problems in each homework to ensure that you are fully prepared for the exams.
- Work on the problems several days before they are due, so you have time to go to the professor's help hours, go the MSLC for tutoring, or find any Chem 100 TA at the MSLC to ask for help. Never wait until the last day to work on the homework; otherwise, you will be rushing through the assignment instead of learning how to break down problems and theories to prepare for the exams.
- It is highly recommended that you buy a notebook to write out your work on the problem sets to keep good notes and to make your studying more efficient.
- You will have multiple attempts for each HW problem. Your score will be based on the percent correct answers, with a max of 15 points per homework.
- Scores will be transferred from Aktiv to Canvas throughout the semester

Aktiv Exam Reviews (30 points each) assess your understanding of material and help you prepare for exams. They are denoted in Aktiv as Practice and will be labeled by the exam and chapters material covered. For example, "Exam 1 Review - 1, 2.1 – 2.3, 3 & 11.2" will help you prepare for Exam 1 by reviewing concepts and solving problems from all chapters covered on the exam. You will have **unlimited attempts** and your grade will be based on the final number of correct answers you have.

Aktiv Assignments Due dates: All HW will be due at 11:55 pm on Sunday on a mostly weekly basis. Exam Reviews will be due at 8:00 am the morning of the exam. Check the schedule for exact due dates. Announcements on Canvas will remind you of deadlines.

For problems with Aktiv registration and other technical difficulties contact the Aktiv tech support via email (support@aktiv.com) or through their support site aktiv.com/support.

Lecture Engagement (Top Hat)

Regular engagement with course material is important for your success. A maximum of 125 Lecture Engagement points can be earned and you will have approximately 190 points available to you throughout the semester. You can choose your preferred way to earn points. Points can be earned by correctly answering any combination of questions embedded in the online textbook within Top Hat or questions posed in Top Hat in real-time during lecture. All questions will have due dates and cannot be completed for points after those due dates but will be available for you to review after the due date. Top Hat points will be visible within Top Hat and transferred to Canvas at the end of the semester (max 125 points).

Instructions and a link for accessing Top Hat will be provided on Canvas. Should you require assistance with Top Hat at any time please contact their Support Team via email (support@tophat.com), the in-app support button, or by calling 1-888-663-5491.

Exams

Midterms

There will be three in-person midterm exams and one in-person final exam. All exams are held in SHW-12 and another classroom to be determined. The use of cell phones, computers, or any other electronic devices is strictly prohibited during exams. Scientific and graphing calculators are permitted.

For each exam, you must bring a scantron (Form 882, blue or green, but not red), a pencil, an eraser, and your calculator. Exams are based on cumulative material from lecture and homework and will primarily focus on the assigned chapters. Each midterm exam is worth 100 points and will last 50 minutes. Exams will begin promptly at the scheduled time and end within the allotted time frame. **Please bring your SDSU Red ID to each exam for verification by a proctor.**

Final Exam

The final exam is cumulative, covering all course topics, and worth 130 points. It will be held in person on **Friday, May 8 from 1:00 - 3:00 pm**

Makeup Exam Policy

Makeup exams will only be allowed in the case of formally documented emergencies. If you miss an exam or anticipate missing one, you must contact the course coordinator, Laurie Clare, at Iclare+chem100@sdsu.edu within 24 hours. Acceptable forms of documentation include a doctor's note, a note from Student Health Services, a funeral program, or a police report. All documentation must specify the dates you were unable to attend school and include a phone number for verification. A doctor's appointment is not considered an emergency. A "pre-planned emergency" is not considered a valid excuse for missing an exam. Without formal documentation, you will not be allowed to make up an exam. Make up exams are held on the following Monday of a Friday exam at 6:00am in CSL 522 and at no other time.

Because of the NCAA Tournament, this semester, our 2nd exam is the Friday before Spring Break. Do not book a flight to leave before the March 27, Friday Exam. This is not considered an excuse for missing an exam. If your parents booked the flight or will book a flight for you, tell them to not book a flight before the Friday test day or change the flight if they have.

For COVID-19-related absences, submit your test results and quarantine dates through HealtheConnect, and email the quarantine confirmation to the course coordinator, Laurie Clare, at Iclare+chem100@sdsu.edu. COVID-related accommodations are allowed only once, so ensure all required documentation is submitted promptly.

Exams for SDSU Athletes

If you are an NCAA athlete at SDSU, you must submit your competition schedule to the course coordinator, Laurie Clare, at Iclare+chem100@sdsu.edu within the first two weeks of the semester to arrange accommodations for potential exam conflicts. We do not provide accommodations for club athletes or for dance club athletes.

Accommodations (SDS):

SDSU via the Student Disability Services (SDS) provides accommodations for students with documented disabilities or medical conditions covered under the Americans with Disabilities Act (ADA). In keeping with current public health guidance, no accommodations will be granted to students without an ADA-qualified disability or medical condition.

If you are a student with a disability and need accommodations for this class, please contact the Student Disability at sds@sdsu.edu as soon as possible. Accommodations are not retroactive; we cannot provide accommodations based upon disability until Dr van der Geer

and Laurie Clare have received an accommodation letter from the Student Disability Services Center. If you are not on the SDS list of students, we cannot offer accommodation. SDS registration and accommodation approvals may take up to 10-14 business days, so plan accordingly.

SDS students are responsible for making appointments to take exams on time

Flex Plans for SDS students- Pre and Post Labs write-ups in Labflow as well as Aktiv homework assignments allow one week to be completed; therefore, no flex plans are accepted for these assignments. Top Hat Pre-Class reading assignments are due with each exam and involve multiple weeks to complete, therefore no flex plans are accepted for Top Hat assignments.

Lab Assignments (Labflow)

Chemistry is an experimental science. As such, its principles are best illustrated in the laboratory setting. You will learn many basic principles of chemistry in a modern, well-equipped laboratory environment. Learn the name of your laboratory teaching assistant (TA) and your lab section number.

- Lab attendance is **mandatory** and students who miss more than 4 of the labs or fail to submit more than 4 pre- or post- lab assignments will not receive a passing grade in this course, regardless of how many points were earned on other assignments and exams. This means if you miss or do not submit pre and post lab assignments for 5 or more labs you will receive an F for this class.
- When conducting experiments, all persons present in a chemistry laboratory must wear approved eye protection, BLUE flame-resistant lab coat (white lab coats sold in bookstore are not flame-resistant) or flame-resistant yellow apron. Long pants or skirts that fall below mid-calf must be worn, and shoulders must be covered. Long hair must be confined securely. Anyone not in compliance will be asked to leave and will not be allowed to return until properly attired. **Do not** wear shorts or tank tops to any lab session. In addition, closed toe/heel shoes are mandatory for every lab session. This includes lab sessions when completing worksheets only. Store a pair of shoes in your locker if you think you will forget to wear proper shoes. This means that if you wear Birkenstocks sandals or Crocks to lab, you will be asked to leave and you will receive a zero score for the lab work. No food or drink at any time is allowed in the lab.
- Do not be late for lab. If you are more than 10 minutes late to lab, your TA will ask you to leave.
- If you have forgotten your safety glasses then you must either borrow a pair from a friend, buy new ones at the bookstore, or go home and take a zero on that lab.
- Lab work for CHEM 100 must be performed in the lab section you are registered for during your scheduled lab hours. **Do not** attend any lab session other than the lab you are registered for, or you will receive a zero for that lab.
- There are 15 lab participation points. These will be assigned throughout the semester through activities on Labflow (5 points) and at the discretion of the lab TA at the end of the semester (10 points). Arriving on time prepared for laboratory, adhering to lab safety protocols, and helping with clean-up will ensure that you receive these points.

Pre-lab Assignments

Before each lab, you will complete a 3-point pre-lab assignment in Labflow. This assignment will be available one week in advance of lab and is designed to check your understanding of the upcoming topic. You get 10 attempts to complete the pre-lab for your highest score.

You must complete at least one attempt on your pre-lab to open access to your post lab. This means that if you do not complete at least one pre-lab assignment attempt, you will receive a zero score on your post lab assignment. Be careful about this and submit your prelab assignment on time.

Post-lab Assignments

Post-lab assignments are worth 12 points and are due before your next lab meeting. All post-lab assignments include a segment where you record data from your experiment into Labflow. It is important to be careful to record the correct data. Once you close this section, you cannot access the section again. The balance of the post assignment consist of calculations, and/or question responses to be completed on Labflow and submitted online through the Labflow platform. **Be sure to press the submit button to submit your assignment or you will lose 50% credit.** No credit will be given for a post-lab assignment report if the experiment was not actually done by that student.

Labflow Token Economy

This semester our course will utilize a **Token Economy** in Labflow. This is a flexible system designed to empower your learning and allow you to become responsible for your own actions. Think of tokens as digital currency that can be earned through proactive engagements and preparation, and then to be spent on assignment extensions.

Here 's how the Token Economy can benefit you:

Earn Flexibility & Grace: Tokens provide a structured way to gain "grace" for unexpected events, helping you manage deadlines and reduce stress.

Boost Engagement & Preparation: You can earn tokens by engaging with course material (e.g., watching pre-lab videos, completing pre-lab quizzes before the due date and scoring above 95% on pre-lab assignments in addition to good lab stewardship such as cleaning up and proactively notifying your TA about filled or over filled hazardous waste containers.

You can spend tokens to extend due dates by 24 hours. Extending due dates for quizzes will cost more than extending due dates for post lab assignments. See the Student Guide for How to Use Tokens in Labflow for more specific values.

Develop Essential Skills: This system helps you build valuable "how-to-college" skills like prioritization, personal planning and responsible decision-making.

You can track your token balance and view available earning and spending opportunities by looking for the token bank number in the upper right corner of Labflow, or by clicking the dedicated token icon in the blue left-hand menu. Use this system to enhance your learning

Lab Absences

Because of logistical constraints, you will not be allowed to make up missed lab experiments. However, your lowest pre- and post-lab assignment score will be automatically dropped when determining your course grade. Use this free pass wisely, as the first missed lab—regardless of the reason (this includes illness), will automatically count as your dropped score. If you are too ill to attend lab, obtain a doctor's note where the doctor gives the range of days for excusal and their phone number for verification. Only when you miss a second lab because of illness you will again

need to obtain a doctor's note. We will provide accommodations for the second missed lab only with 2 doctor's notes, one for each missed lab.

If you miss a second lab, you must contact the lab coordinator (Iclare+chem100@sdsu.edu) to request an excusal. Do not contact your TA about missing labs, they cannot help you. Again, for a second missed lab to be excused, you must have formal documentation for BOTH missed labs. Examples of formal documentation include a doctor's note, a note from student health services, a funeral program, or a police report. The documentation must include the specific dates you were unable to attend school and provide a phone number for verification. A doctor's appointment is not considered an emergency.

For absences related to COVID-19, please submit your test results from the doctor and any related information to HealtheConnect. You will also need to email your quarantine dates from HealtheConnect to the lab coordinator. COVID-related accommodations will be allowed only once, so please ensure all required documentation is submitted promptly.

Lab lockers: Two CHEM 100 students will be checking into a locker and sharing the locker. Both will be responsible for the equipment in it. At the end of the semester or if you drop the class, you need to check out of your locker. If you fail to check out by the scheduled date, there will be a \$25 fee.

COURSE SUPPORT: FREE RESOURCES

We highly recommend that you take advantage of the free resources provided by SDSU. These are opportunities to ask tutors and/or instructors questions that arise during your studies. Any student may attend any of the Chem tutoring hours or any TA help hour and you may attend as many as you like.

The Mathematics and Science Learning Center (MSLC)

Instructor and teaching assistant (TA) office (help room) hours for this course will be held in the MSLC (<https://mslc.sdsu.edu/chemistry-ta/>). Students are also encouraged to make use of MSLC for free drop-in STEM tutoring for other courses. The MSLC is available Sunday through Friday. Most services are in person in Love Library, Room 328, though the website will list any available virtual tutoring times. For a full list of courses tutored and the most recent schedule of TA and tutor help hours, please visit the [MSLC website](#).

The MSLC is supported by your student success fee. We strongly encourage you to use this wonderful, free resource. Some students believe that they shouldn't need to ask for help, but research has shown that **the average grade for students who use the MSLC is almost one full grade higher than those who don't seek support.**

Supplemental Instruction (SI)

SI Sessions are free study sessions and will be offered each week, throughout the course. SI is open to all students enrolled in this course. SI Sessions are facilitated by an SI Leader, a current student who just took the course and received a good grade and has been trained to lead active-learning-based group sessions where students can improve their understanding of course material, review and discuss important concepts, develop study strategies, and prepare for exams.

Students who participate in SI Sessions typically earn higher final course and exam grades than students who do not participate, sometimes by a half to a full letter grade.

Attend SI so you can get extra practice, meet other students in the course, and learn how to effectively study. To get the most out of SI, attend early and often.

- SI Program: https://bit.ly/SDSU_SI
- Meet the SI Leaders: <https://studentsuccess.sdsu.edu/supplemental-instruction/leaders/chem100>
- Calendar: <https://studentsuccess.sdsu.edu/supplemental-instruction/session-schedules>

GRADING POLICIES

Your letter grade will be determined by your individual points total for the course. There will be no curving of the course grades. This is a tentative grade range breakdown for each letter grade. The instructor reserves the right to universally modify

this grade scale prior to assigning final letter grades. Earning the respective percentage in the course listed here will result in the grade noted. It is possible that the percentages may be lowered, but they will not be raised for a given letter grade.

Percentage	Letter Grade
≥ 93.33	A
90 to < 93.33	A-
86.66 to < 90	B+
83.33 to < 86.66	B
80 to < 83.33	B-
76.66 to < 80	C+
73.33 to < 76.66	C
70 to < 73.33	C-
66.66 to < 70	D+
60 to < 66.66	D
< 60	F

Item	Submission	Number	Value	Total	% of grade
Math Readiness	Aktiv	1	15	15	1.5%
Weekly Homework	Aktiv	Best 9 of 10	15	135	13.5%
Exam Reviews	Aktiv	3	30	90	9.0%
Midterm Exams	In-Class	3	100	300	30.0%
Final Exam	In-Class	1	130	130	13.0%
Scavenger Hunt	Canvas	1	10	10	1.0%
Lecture Engagement	Top Hat	TBD (variable)	TBD	125	12.5%
Lab Safety Training	Canvas & Lab TA	1	15	15	1.5%
Pre-Lab Assignments	Labflow	Best 11 of 12	3	33	3.3%
Post-Lab Assignments	Labflow	Best 11 of 12	12	132	13.2%
Lab Participation	Canvas & Labflow	1	15	15	1.5%
			Total	1000	100.0%

COURSE SCHEDULE

All dates and time are Pacific. This syllabus and schedule are subject to change. I will make any changes clear with announcements in class and on the Canvas website using Announcements. The coordinator will also keep you updated using Announcements in Canvas. Please pay attention to announcements made in class and lab. It is your responsibility to check on announcements made in your absence.

Chem 100 Spring 2026 Class Schedule

Week	Date	Lecture Topic (TopHat)	Lab Material (Labflow)	Homework & Other Due Dates
1	Jan 19, 2025	Martin Luther King Holiday No Class	No Labs Meet Students need to Complete Safety Training Acknowledgement Survey Safety Module in Canvas (due Jan 30 th at 11:59 pm)	Scavenger Hunt (Canvas) due Jan 30 th at 11:59 pm
	Jan 21, 2025	Introduction/ Chapter 1		Math Readiness Diagnostic (Aktiv) due Jan 30 th at 11:59pm
	Jan 23, 2025	Chapter 1		
2	Jan 26, 2025	Chapter 1	No Labs Meet Complete Labflow Introduction by Feb 1 at 11:55pm	Week 2 Aktiv HW (Ch 1) due Feb 1 at 11:59pm
	Jan 28, 2025	Chapter 1		Feb 2 - Last day to add/drop classes, 11:59 pm deadline
	Jan 30, 2025	Chapter 2 (skip 2.4)		
3	Feb 2, 2025	Chapter 2 (skip 2.4)	Lab Check-in & In-Lab Safety Quiz Lab 1 – Use of Volumetric Equipment	Week 3 Aktiv HW (Ch 2.1 – 2.3) due Feb 8 at 11:59pm
	Feb 4, 2025	Chapter 2 (skip 2.4)		
	Feb 6, 2025	Chapter 3		
4	Feb 9, 2025	Chapter 3	Lab 2 – Atomic Spectra	Week 4 Aktiv HW (Ch 3 & 11.2) due Feb 15 at 11:59pm
	Feb 11, 2025	Chapter 3		
	Feb 13, 2025	Chapter 3 & Chapter 11.2		
5	Feb 16, 2025	Chapter 4	Lab 3 – Graphing in Excel	Exam 1 Review Aktiv (Ch 1, 2.1 – 2.3, 3 & 11.2) due Feb 20 at 8:00 am Top Hat pre-class reading for Ch 1, 2.1 – 2.3, 3 & 11.2 due Feb. 20 th at 8 am
	Feb 18, 2025	Chapter 4		
	Feb 20, 2025	Exam 1 (Chs 1, 2.1 – 2.3, 3 & 11.2)		
6	Feb 23, 2025	Chapter 4	Lab 4 - Nomenclature	Week 6 Aktiv HW (Ch 4.1 – 4.3) due March 1 at 11:59pm
	Feb 25, 2025	Chapter 4/5		
	Feb 27, 2025	Chapter 5		

Week	Date	Lecture Topic (TopHat)	Lab Material (Labflow)	Homework & Other Due Dates
7	Mar 2, 2025	Chapter 10	Lab 5 - VSEPR	Week 7 Aktiv HW (Ch 4.4 – 4.6, 5 & 10.1 – 10.3) due March 8 at 11:59pm
	Mar 4, 2025	Chapter 10		
	Mar 6, 2025	Chapter 10		
8	Mar 9, 2025	Chapter 2.4	Lab 6 – Intermolecular Forces	Week 8 Aktiv HW (Ch 2.4, 6.1 & 6.2) due March 15, 11:59pm
	Mar 11, 2025	Chapter 2.4		
	Mar 13, 2025	Chapter 6.1 & 6.2		
9	Mar 16, 2025	Chapter 6.3 & 6.4	Lab 7 – ID Unknown Metal Carbonate	Week 9 Aktiv HW (Ch 6.3, 6.4) due March 22 at 11:59pm
	Mar 18, 2025	Chapter 6.3 & 6.4		
	Mar 20, 2025	No Class due to NCAA Tournament		
10	Mar 23, 2025	Chapter 7	Lab 8 –Empirical Formula of Magnesium Oxide	Exam 2 Review Aktiv (Ch 4, 5 & 10.1 – 10.3) due March 27 at 8:00 am Top Hat pre-class reading for Ch 4, 5 & 10 due Mar. 27 th at 8 am
	Mar 25, 2025	Chapter 7		
	Mar 27, 2025	Exam 2 (Chapters 4, 5 & 10)		
11	Mar 30 2025	Cesar Chavez Day Spring Break	No labs meetings this week	No Aktiv HW this week
	Apr 1, 2025	Spring Break		
	Apr 3, 2025	Spring Break		
12	Apr 6, 2025	Chapter 7	Lab 9 - Soluble and Insoluble Salts	Week 12(a) Aktiv HW (Ch 7.1 & 7.2) Week 12(b) Aktiv HW (Ch7.3 – 7.5) due April 12 at 11:59pm
	Apr 8, 2025	Chapter 7		
	Apr 10, 2025	Chapter 7		
13	Apr 13 2025	Chapter 8	Lab 10 – Limiting Reactant	Exam 3 Review Aktiv (Ch 2.4, 6, & 7) due April 17 at 8:00 am. Top Hat pre-class reading for Ch 2.4, 6 & 7 due April 17 th at 8am
	Apr 15, 2025	Chapter 8		
	Apr 17, 2025	Exam 3 (Chapters 2.4, 6 & 7)		
14	Apr 20, 2025	Chapter 8	Lab 11 – Determination of the Molar Volume of a Gas and the Gas Constant	Week 14 Aktiv HW (Ch 8.1 – 8.3) due April 26 at 11:59pm
	Apr 22, 2025	Chapter 8		
	Apr 24, 2025	Chapter 8		

15	Apr 27, 2025	Chapter 8	Lab 12 – Specific Heat Capacity	Week 15 Aktiv HW (Ch 8.3 – 8.6) due May 3 at 11:59pm
	Apr 29, 2025	Chapter 9		
	May 1, 2025	Chapter 9		
16	May 4, 2025	Chapter 9	Lab Check Out	Week 16 Aktiv HW (Ch 9) due May 8 at 8:00 am
	May 6, 2025	Review for Final Exam		Top Hat pre-class reading for Ch 8 & 9 due May 8 th at 8 am

May 6, last day of classes

Friday, May 8, From 1 – 3:00 pm, Final Exam

Summary of Exam Topics and Dates		
	Topic:	Exam Dates and Times
Exam 1	Chapters 1, 2, 3 & 11.2	1:00 pm – 1:50 pm Fri, Feb 20
Exam 2	Chapters 4, 5 & 10	1:00 am – 1:50 am Fri, Mar 27
Exam 3	Chapters 2.4, 6, & 7	1:00 am – 1:50 am Fri, April 17
Final Exam	All Covered Chapters & Topics (Ch 1 – 10 & 11.2)	1:00 pm — 3:00 pm Fri, May 8