

## CHEM 100: Preparation for General Chemistry – Fall 2024

### COURSE INFORMATION

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**Lecture time/Location:** 1:00 pm to 1:50 pm Mon, Wed & Fri in ENS 280

**Lab times/locations:** Your schedule lists your lab section time and location; labs meet in Chemical Sciences Laboratory (CSL) on the 5<sup>th</sup> floor.

**Modes of instruction:** In-person lectures and laboratories. Attendance is **absolutely required** for **all** lectures and lab sessions. Lab teaching assistants (TAs) will take attendance during the lab session. The learning management system (LMS) for both lecture and labs will be Canvas (<https://sdsu.instructure.com/courses/155477>). In-class lecture will be recorded through Mediasite and embedded in Canvas. Exams and homework will be administered online.

**Instructor:** Dr. John Love ([jlove@sdsu.edu](mailto:jlove@sdsu.edu))

**Dr. Love's Office Hours:** Mondays and Tuesdays 4 to 5 PM pm in GMCS 217.

<b>Course Coordinator:</b> Professor Alex Hofler	Email: <a href="mailto:ahofler@sdsu.edu">ahofler@sdsu.edu</a>
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Prof. Hofler is your first point of contact for questions about the course. You should **contact her first for all your questions** related to the waitlist, labs, homework, or other issues. She may direct your question to other coordinators or the instructor. Please include your full name, Red ID#, and course section in your email.

<b>Lab Coordinator:</b> Professor Sharai Mendez ( <a href="mailto:sjmendez@sdsu.edu">sjmendez@sdsu.edu</a> )	<b>Lab Coordinator:</b> Professor Kathy McNamara-Schroeder ( <a href="mailto:KMCNAMARA@sdsu.edu">KMCNAMARA@sdsu.edu</a> )
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*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.*

**Waitlist:** Waitlist students should email the Chem 100 Course Coordinator, Prof. Hofler, [ahofler@sdsu.edu](mailto:ahofler@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 Sept 9th at 11:59 pm.

**Technology Requirements:** A computer and stable internet connection is absolutely required for Aktiv and LabFlow online homework and online exams in Canvas. A computer/tablet/phone is needed for Top Hat pre-class readings. If you need to borrow a computer, contact SDSU Economic Crisis Response Team.

## COURSE MATERIALS – REQUIRED

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**Day1Ready:** All materials required for your courses, and thus for this class (except for the lab manual) are available in digital format by the first day of classes and are free up until **the add/drop date at 11:59 pm September 9**. After this date, if you do not opt out, your SDSU student account will be charged a flat rate of \$21.50/unit. Please visit the SDSU bookstore and info on 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. In addition, you are required to purchase what is known as an iClicker remote. You will need to bring this to every class lecture because it will enable you to answer multiple-choice questions posed on the screen during each class. The iClicker remote is included in the Day1Ready material and is available at the SDSU bookstore. Information regarding the registration and use of iClicker remotes can be found at the following website:  
<https://its.sdsu.edu/software/audience-response-system>

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

iClicker remote (SDSU bookstore): \$52.99 (new), \$26.99 (used)

**Textbook:** Chemistry: Atoms First 2<sup>nd</sup> Edition (OpenStax Textbook). You will have access through your TopHat 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 TopHat version should be your primary reference.

**Lab Manual:** Chem 100L: Preparation for General Laboratory Manual, Chemistry Dept. Printed by Catalyst Education, Fall 2024 – Spring 2025. Physical copies will be distributed to all enrolled students at the lab in 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:** Safety glasses, 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 your iClicker remote for in-class participation during lectures. The iClicker remote will enable you to engage with the course material in real time. Instructions for using Top Hat are posted in Canvas. All instructions for registering and using your iClicker remote can be found at the following SDSU website –

<https://its.sdsu.edu/software/audience-response-system>

**Online Homework:** Aktiv will be used for online homework each week and exam review problems before each exam. Instructions for using Aktiv are posted in Canvas. You will gain access to Aktiv through the Canvas website for this course.

**Additional items:** Calculator. The recommended calculator for this course is the Texas Instruments: TI-30Xa, but you may use any calculator you prefer.

## STUDENT LEARNING OUTCOMES

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**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)

## DIVERSITY AND INCLUSION

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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.

## LAND ACKNOWLEDGMENT

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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.

## ESSENTIAL STUDENT INFORMATION

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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@sdsu.edu](mailto:sds@sdsu.edu) | <https://sds.sdsu.edu/>). Please allow 10-14 business days.
- Religious observances: Please notify the lab coordinator within the first two weeks of class of any planned absences from exams, quizzes, or labs due to religious observances 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 8AM 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 requires the use and handling of hazardous materials. You must complete the Environmental Health and Safety module and survey in our Canvas course by Sept 3 at 8am. You will also take a written safety quiz during the Week 3 lab. These activities are worth a total of 15 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.

## **COURSE DESIGN: MAJOR ASSIGNMENTS AND ASSESSMENTS**

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### **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 your 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.
- We **STRONGLY** 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. Bring your notebook to class with you in order to take good notes.
- 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 11:59 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](mailto:support@aktiv.com)) or through their support site [aktiv.com/support](http://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 175-200 points available to you throughout the semester. Points will be earned by correctly answering any combination of questions embedded in the online textbook within Top Hat in addition to iClicker questions posed in real-time during lecture. All pre-class reading 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. iClicker points will be visible within Canvas 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](mailto:support@tophat.com)), the in-app support button, or by calling 1-888-663-5491.

**Class Participation (Clicker Questions):** You are required to purchase an iClicker remote control device (sometimes referred to as an iclicker or i-clicker) for in-class participation. You are not permitted to use your cell phones at any time during class lectures. Therefore, you must purchase an iClicker from the bookstore (or any other sources), and you are not permitted to use the cell phone clicker app.

A clicker is a response system (a remote) that allows you to answer questions that are posed during lecture. It is anticipated that there will be between 5 to 10 questions per lecture beginning with the second week of the semester. These questions are usually presented in multiple choice format and students typically have about 30 seconds to respond using their clicker. The purpose of this exercise is to identify any misunderstandings with the material and encourage active learning. A small percentage (12.5% - 125 points) of your total grade will derive from pre-class reading questions in TOPHAT and from in-class participation with iClickers. For you to receive this credit, you MUST register your clicker remote for this class through a link in your SDSU Canvas course menu. This is different than registering your clicker with the clicker company (which is not necessary to receive credit for clicker points). You will use your clicker remote during almost every lecture and therefore you are responsible for bringing your clicker remote to every lecture. All information pertaining to clickers can be found at the SDSU website (<https://its.sdsu.edu/software/audience-response-system>). Students who forget their clicker, or if their clicker malfunctions (e.g., batteries fail) will NOT receive any points for that particular class session. The means by which absences, malfunctions, or forgotten clickers are dealt with is described below.

During the semester a maximum of 125 final grade points can be earned from pre-class reading questions in TOPHAT and in class iClicker participation. During each class, each student receives one clicker point for participation per class, and additional points for correct answers. At the end of the semester, a student's total clicker points are increased by 10% to allow for absences, malfunctioning clickers, and all other possible problems. The pre-class reading questions in TOPHAT, and the clicker points are then normalized to the maximum of 125 grade points. For example, if there are a total of 250 pre-class reading question points in TOPHAT combined with all clicker questions posed during classes throughout the entire semester, then there are 250 possible total points. A student who earned 195 total points out of 250 (after the 10% increase) will receive 97.5 grade points (out of a possible 125 total points).  $195/250 = 78\%$ . 78% of 125 is 97.5.

**Exams (Canvas):** There are 3 online mid-term exams that will be administered through Canvas. All online exams should be considered cumulative but will focus mainly on content from the assigned chapters. Each online exam is worth 90 points. You have 50 minutes to complete each online exam once you start it. Exam availability will only be during our scheduled class time of 1 PM to 1:50 PM. You will **not** need to come to class to take the exam, but you must absolutely ensure that your computer is operational and that you have good Wi-Fi in order to complete the exam.

You should perform all work for exam problems on a piece of physical or electronic scratch paper that can be converted to a PDF and uploaded after each exam. You will be asked to upload your work for specific problems within 30 minutes of completing the exam. Failure to upload your written work will result in a score of zero for the exam.

No exam retakes will be allowed for technical issues. There will be no make-up exams, except in the case of appropriately documented medical absences. In the event you miss an exam or know that you will be missing an exam, contact the coordinator by email, [ahofler@sdsu.edu](mailto:ahofler@sdsu.edu), *as early as possible*. Without verifiable medical documentation you will not be allowed to make up an exam. If you are an SDSU NCAA athlete, you must submit your schedule of competition during the first two weeks of semester so that arrangements around exam conflicts can be made.

**Final Exam (Canvas):** The final exam (130 points) is cumulative and will cover all course topics. The final exam will be given on Canvas on **Friday December 13, from 1:00 pm to 3:00 pm**. There will be no make-up, except in the case of appropriately documented medical absences. If you miss the final exam or know that you will be missing the final exam, contact the coordinator by email, [ahofler@sdsu.edu](mailto:ahofler@sdsu.edu), *as soon as possible*. **The use of any disallowed materials/references or communication with anyone other than the instructor/coordinator during an exam will be considered dishonest academic conduct. The instructor/coordinator reserves the right to make exceptions to this policy at their discretion.**

**Learning Activities (Canvas):** After each exam (but not the final exam) you will review missed exam questions by submitting a response that includes identifying the correct answer, a discussion of why the answer is correct and a description of the mistake made to arrive at the incorrect answer. Each of these Learning Activities is worth 10 points and must be uploaded to Canvas as a pdf file. One learning activity will occur at the start of the semester so you become familiar with the process of taking exams and uploading PDFs of written work.

**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 **absolutely 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.
- 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. No food or drink at any time is allowed.

- 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.
- **Pre-lab assignments:** Before each lab you will complete a 3-point assignment in Labflow to check your understanding of the upcoming topic. You can retake these as many times as you want before the due date to earn full credit.
- **Post-lab assignments:** are worth 12 points and are due the day before the next lab experiment is performed. All assignments consist of completed pages for each experiment out of your lab manual and any post-lab data, calculations, and/or question responses submitted online through the Labflow platform. **Late post-lab assignments will lose 50% credit for each day late.** No credit will be given for a post-lab assignment report if the experiment was not actually done by that student.
- 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 dropped** when determining your course grade. Use this free pass wisely. **No matter the reason for missing a lab, the lowest lab score is dropped.** A second missed lab will only be excused by contacting the coordinator ([ahofler@sdsu.edu](mailto:ahofler@sdsu.edu)) before your lab session begins. Medical documentation in the form of a signed doctor's note specifying dates of missing school which includes a return date are required. If your second missed lab is due to being sick with COVID, send all tests and information to HealthConnect. Email your quarantine dates from HealthConnect to the lab coordinator. **This will be a one-time accommodation.**
- 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.
- 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.

## **COURSE SUPPORT: FREE RESOURCES**

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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: <https://mslc.sdsu.edu/>.

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](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 out of 10	15	135	13.5%
Exam Reviews	Aktiv	3	30	90	9.0%
Midterm Exams	Canvas (online)	3	90	270	27.0%
Final Exam	Canvas (online)	1	130	130	13.0%
Learning Activities	Canvas	4	10	40	4.0%
Lecture Engagement	iClicker	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%
<b>Total</b>				<b>1000</b>	<b>100.0%</b>

\*The complete course schedule can be found on the following page (this is not the end of the document). Please continue to the next page in order to review the complete course schedule.

**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.

Week	Date	Lecture Topic (TopHat)	Lab Material (Labflow)	Homework & Other Due Dates
1	Aug 26, 2024	Introduction/ Chapter 1	<b>No Labs Meet</b>	Learning Activity 1: Course Scavenger Hunt (Canvas)
	Aug 28, 2024	Chapter 1	Complete Lab Safety Module in Canvas (due Sept 3 at 8am)	Math Readiness Diagnostic (Aktiv) due Sept 3 at 11:59pm
	Aug 30, 2024	Chapter 1		
2	Sept 2, 2024	<b>No Class – Labor Day</b>	<b>No Labs Meet</b>	Week 2 Aktiv HW (Ch 1) due Sept 8 at 11:59pm
	Sept 4, 2024	Chapter 1	Complete Labflow Introduction	
	Sept 6, 2024	Chapter 2 (skip 2.4)		
3	Sept 9, 2024	Chapter 2 (skip 2.4)	Lab Check-in & Safety Quiz	<b>Sept 9 - Last day to add/drop classes, 11:59 pm deadline</b>  Week 3 Aktiv HW (Ch 2.1 – 2.3) due Sept 15 at 11:59pm
	Sept 11, 2024	Chapter 3	Lab 1 – Use of Volumetric Equipment	
	Sept 13, 2024	Chapter 3		
4	Sept 16, 2024	Chapter 3	Lab 2 – Atomic Spectra	Week 4 Aktiv HW (Ch 3 & 11.2) due Sept 22 at 11:59pm
	Sept 18, 2024	Chapter 3 & Chapter 11.2		
	Sept 20, 2024	Chapter 4		
5	Sept 23, 2024	Chapter 4	Lab 3 – Graphing in Excel	Exam 1 Review Aktiv (Ch 1, 2.1 – 2.3, 3 & 11.2) due Sept 27 at 8am
	Sept 25, 2024	Chapter 4		
	Sept 27, 2024	<b>Exam 1 (Chs 1, 2.1 – 2.3, 3 &amp; 11.2)</b>		
6	Sept 30, 2024	Chapter 4	Lab 4 - Nomenclature	Learning Activity 2: Exam 1 Reflection
	Oct 2, 2024	Chapter 5		Week 6 Aktiv HW (Ch 4) due Oct 6 at 11:59pm
	Oct 4, 2024	Chapter 5		

Week	Date	Lecture Topic (TopHat)	Lab Material (Labflow)	Homework & Other Due Dates
7	Oct 7, 2024	Chapter 10	Lab 5 - VSEPR	Week 7 Aktiv HW (Ch 5 & 10) due Oct 13 at 11:59pm
	Oct 9, 2024	Chapter 10		
	Oct 11, 2024	Chapter 10		
8	Oct 14, 2024	Chapter 2.4	Lab 6 – Intermolecular Forces	Week 8 Aktiv HW (Ch 2.4, 6.1 & 6.2) due Oct 20 at 11:59pm
	Oct 16, 2024	Chapter 2.4		
	Oct 18, 2024	Chapter 6.1 & 6.2		
	Oct 21, 2024	Chapter 6.3 & 6.4		
9	Oct 23, 2024	Chapter 6.3 & 6.4	Lab 7 – ID Unknown Metal Carbonate	Exam 2 Review Aktiv (Ch 4, 5 & 10) due Oct 25 at 8am
	Oct 25, 2024	<b>Exam 2 (Chapters 4, 5 &amp; 10)</b>		
10	Oct 28, 2024	Chapter 7	Lab 8 –Empirical Formula of Magnesium Oxide	Learning Activity 3: Exam 2 Reflection  Week 10 Aktiv HW (Ch 6.3, 6.4 & 7) due Nov 3 at 11:59pm
	Oct 30, 2024	Chapter 7		
	Nov 1, 2024	Chapter 7		
	Nov 4 2024	Chapter 7		
11	Nov 6, 2024	Chapter 7	Lab 9 – Soluble and Insoluble Salts	Week 11 Aktiv HW (Ch 7) due Nov 10 at 11:59pm
	Nov 8, 2024	Chapter 7		
12	Nov 11, 2024	<b>No Class – Veteran’s Day</b>	Lab 10 – Limiting Reactant  <b>No Monday Labs Meet</b>	Week 12 Aktiv HW (Ch 7) due Nov 17 at 11:59pm
	Nov 13, 2024	Chapter 7		
	Nov 15, 2024	Chapter 7		
13	Nov 18, 2024	Chapter 8	Lab 11 – Determination of the Molar Volume of a Gas and the Gas Constant	Exam 3 Review Aktiv (Ch 2.4, 6, & 7) due Nov 22 at 8am
	Nov 20, 2024	Chapter 8		
	Nov 22, 2024	<b>Exam 3 (Chapters 2.4, 6, &amp; 7)</b>		
14	Nov 25, 2024	Chapter 8	<b>ONLY Monday Labs Meet:</b> Lab 10 – Limiting Reactant	
	Nov 27, 2024	<b>No Class – Thanksgiving Break</b>		
	Nov 29, 2024	<b>No Class –</b>		

Thanksgiving Break				
Week	Date	Lecture Topic (TopHat)	Lab Material (Labflow)	Homework & Other Due Dates
15	Dec 2, 2024	Chapter 8	Lab 12 – Specific Heat Capacity  <b>Lab Check Out</b>	Learning Activity 4: Exam 3 Reflection
	Dec 4, 2024	Chapter 9		Week 15 Aktiv HW (Ch 8) due Dec 8 at 11:59pm
	Dec 6, 2024	Chapter 9		
16	Dec 9, 2024	Chapter 9	<b>No Labs Meet – Last Week of Classes</b>	Week 16 Aktiv HW (Ch 9) due Dec 15 at 11:59pm
	Dec 11, 2024	Review for Final Exam		

Summary of Exam Topics and Dates		
	Topic:	Exam Dates and Times
<b>Exam 1</b>	Chapters 1, 2, 3 & 11.2	1:00 pm – 1:50 pm Fri, Sept 27
<b>Exam 2</b>	Chapters 4, 5 & 10	1:00 pm – 1:50 pm Fri, Oct 25
<b>Exam 3</b>	Chapters 2.4, 6, & 7	1:00 pm – 1:50 pm Fri, Nov 22
<b>Final Exam</b>	<b>All Covered Chapters &amp; Topics (Ch 1 – 10 &amp; 11.2)</b>	<b>1:00 pm — 3:00 pm Fri, Dec 13</b>