

Chemistry 100
Introduction to General Chemistry
Fall 2022

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<u>Lecture Location & Time</u>	ENS 280, MWF 9-9:50 am
<u>Help Room hours:</u>	Tuesday 2-4 & Thursday 2-3 pm at Math Stats Learning Center (LL 328)
<u>Lab rooms:</u>	CSL 522, 524, 525, 528 (5 th floor Chemical Sciences Laboratory building)
<u>Waitlist:</u>	Waitlist students should email lab coordinators as soon as possible, cosChem100@sdsu.edu with your name and Red ID info to gain access to materials on Canvas. In consultation with the coordinator, you should attend one lab section a week and keep track of which lab you attended. Use the chem 100 website to find information regarding resources for you to not miss any assignments, (http://www.chemistry.sdsu.edu/courses/CHEM100/). Remember, you are 100% responsible for all assignments that are due and for keeping up with the work.
<u>Textbook (Required):</u>	Blei and Odian, Introduction to General Chemistry 2 nd edition, ISBN 9780738080710 (Use Equitable Access link available on Canvas)
<u>Equitable Access:</u>	All required course material (except for lab manual) for this class is available in digital format by the first day of classes and are free up until the drop date at 7:59 pm, September 2. After this date your SDSU student account will then be charged a flat rate of \$22/unit. Please visit Equitable Access for additional information about pricing digital subscription duration, print add-ons, opting out and other frequently asked questions. Through Equitable Access you will have access to your textbook, the OWL Study System, the purchase of lab manual and the in-class lecture participation app, Aktiv.
<u>Study aides(optional):</u> (2006)	Study Guide for General, Organic, and Biochemistry, Second Edition M.L. Gillette & W. Gloffke
<u>Lab manual(required):</u>	<u>Chem 100 Lab Manual</u> , Chemistry Dept. Printed by Hayden MacNeil, Fall 2022. The lab manual is available through the bookstore. In the event of increased COVID cases that force us to pivot to online instruction we will use lab simulations in place of in-person labs. Access to these simulations will be available using a code on the inside

cover of your CHEM 100 Lab Manual via the online link, courses.haydenmcneil.com.

- Lab Equipment:** Safety glasses, flame resistant lab coat (Blue) or lab apron(yellow), do not purchase the white lab coat in the bookstore, it is not flame resistant. Nitrile gloves can be purchased at the SDSU bookstore or available at drugstores such as CVS and Walgreens
Matches or butane lighter.
- Additional items (Required):** Calculator (e.g., TI-30Xa or Casio fx-300ms plus): needs to be scientific but non-graphing and non-programmable. The recommended calculator for this course is the Casio fx-300ms-plus calculator.
A computer and stable internet connection will be needed for OWL homework and exams.
- Modes of Instruction:** Lecture and lab classes will be in-person. Attendance is required for 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.

Online Resources:

- **Canvas:** Canvas will be used in this course. Enrollment in Canvas is automatic if you are currently enrolled in this course. Canvas contains information such as the course syllabus, laboratory information, lecture videos, handouts, and other important course information.
- **OWLv2 Assignments:** Cengage OWLv2 will be used extensively for online Chapter Problem Set and Chapter Assessment aka chapter homework and quizzes. A link for Cengage OWLv2 will be available on Canvas in the Chem 100 Important Information and Links module.
- **Lab Simulations (Hayden McNeil):** In the event of an increase in COVID cases where it becomes mandatory to suspend face-to-face lab instruction, we will pivot to online lab simulations using Hayden McNeil Simulations. Access to these simulations will be available using a code on the inside cover of your CHEM 100 Lab Manual via the online link, courses.haydenmcneil.com

Email Policy: 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 once per day during the academic term. For more information, please see [Student Official Email Address Use Policy here](#)

All communication regarding this course should occur through official SDSU email accounts. The course instructor and lab coordinator will be available via email to answer questions or to schedule office hour appointments. Please allow at least 24 hours for a response, longer over weekends and holidays. To ensure a prompt response include CHEM 100 in the subject line of your emails and make sure to provide your full name and lab section. You will not receive a response from either the instructor or lab coordinator if you do not use your sdsu.edu address.

Use your SDSU Gmail account in addition to your red ID to sign up for OWL. Failure to do so will result in Chapter Problem set or Assessment scores NOT transferred from OWL to Canvas, and you will receive a zero score

USE CHROME AS YOUR BROWSER FOR THIS COURSE!!

This course: Fulfills the GE Natural Sciences and Quantitative Reasoning requirement

Prerequisites: A working ability with high school level algebra.

Course enrollment-You must be enrolled in one laboratory section as well as lecture. It is crucial that you attend the first three laboratory periods. Failure to do so may result in your spot in the lab section being given to another student. Notify the laboratory coordinators (cosChem100@sdsu.edu) before the first week of class if you must miss a laboratory period in the first two weeks of the semester for a legitimate reason. You must be able to attend the laboratory section of CHEM 100 for which you are enrolled; otherwise, you must drop the course and attempt to waitlist a different section that you can attend. If you decide to drop the course, inform the laboratory coordinator by email as soon as possible so your place can be given to a waitlister.

Never attend a lab session that is not on your class schedule, the TA will not let you in.

Expected learning outcomes - Chemistry 100 is an introduction to general chemistry. By the end of this course a successful student will be able to:

- i) execute basic chemistry calculations such as unit conversions and stoichiometry.
- ii) explain the basic principles of atomic theory and chemical bonding.
- iii) quantitatively and qualitatively describe physical and chemical properties of matter.
- iv) illustrate the concept of dynamic equilibrium with acid-base chemistry.
- v) safely and confidently conduct protocols in a laboratory environment.

Organization of the course-Class lecture and labs are in-person. In-class lecture will also be recorded and embedded in Canvas through Mediasite

To be successful in this course, you will need to spend a considerable amount of time (approximately 12 hours per week) outside of class, reading, studying, working on Chapter Problem Sets and Chapter Assessments. Rereading the text after lecture will help in understanding the material and reinforcing lecture topics. Chapter Problems Sets are best completed as they are being presented and discussed in lecture.

Do not put off completing the OWL assignments until the night before an exam or you will fail. This is not the type of material that is easily memorized at the last minute. Moreover, the problem-solving skills you develop as you consistently work through the course material will serve you well as you continue forward in your university education.

Students are encouraged to apply the following approach:

- 1) Read from the textbook for an introduction to concepts
- 2) View the videos provided to gain additional clarification, illustration, and practice with the concepts
- 3) Attempt the online practice problems that correspond to the chapter concepts
- 4) Bring your questions with you to the Math, Science Learning Center (See Below)
- 5) Repeat, until you are comfortable with the concepts and ready to show your mastery of them on a graded, online assessment.

Statement on Cheating and Plagiarism: 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. For more information on the University's policy regarding cheating and plagiarism, refer to the Schedule of Courses ('Legal Notices on Cheating and Plagiarism') or the University Catalog ('Policies and Regulations'). 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.

CHEM 100 Student Help will be available in the Math, Science Learning Center (MSLC) located on the third floor of Love Library in room LL328. The MSLC will have chemistry tutors as well as TA help hours. A schedule of chemistry tutors is available through <https://mlc.sdsu.edu/>. A schedule for TA office hours at the MSLC will be made available in Canvas at the beginning of the second week of the semester.

It is highly recommended that you take advantage of the tutoring services as well getting help from any of the Chem 100 TAs. These are opportunities to ask tutors and/or teaching assistants 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. Take advantage of these services, they are there to help you. The weekly schedule for TA hours will be available on Canvas at the end of the first week. Again, I urge you to take advantage of these free tutorials, discussions of lecture/lab material, and homework help.

Supplemental Instruction: Supplemental Instruction (SI) Sessions, free study sessions, will be offered each week, throughout the sixteen-week course. SI is free and 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: <http://bit.ly/SILeadersSDSU>
Session Calendar: bit.ly/chem100sicalendar

(OWLv2) Assignments:

Before you begin there will be several Introductions to OWLv2 Assignments. These Intro Assignments are to help guide you into using the program. Attempting to use OWLv2 without understanding how the program works can lead to issues later. Please take notes while you are doing these Intro assignments since the topics will be covered later.

Chapter Problem Sets (OWLv2) have hard deadlines and no individual extensions will be granted. There will be at least one Chapter Problem Set from each of the 10 chapters covered in the text. Chapters 3, 4 and 9 have two sets of assignments, both Chapter Problem Set and Assessments. They are denoted as Chapter # Problem Set (a) and Chapter # Problem Set (b). Work on the problems several days before they are due, so you have time to go to the MSLC for tutoring or find any Chem 100 TA at the MSLC to ask for more help. Never wait until the last day to work on the problem set; otherwise, you will be rushing through the assignment and instead of learning how to break down problems and theories to better equip you for the exams.

- Each chapter will have different point total. Your score will be based on the percent correct to receive the max of 10 points.
- It is in your best interest to complete all problems in the Chapter Problem sets to ensure that you are fully prepared for the exams.
- Scores for Chapter Problem Sets will be uploaded from OWL to Canvas at the end of the semester. Errors occur due to incorrect RedID number, incorrect email address, multiple OWLv2 accounts and/or your work is in the wrong section and is not recognized for a score.

Chapter Assessments (OWLv2) also have hard deadlines and individual extensions will not be granted. Complete the Chapter Problems Sets first then complete Chapter Assessments. You will have three attempts at the chapter assessment. The Chapter Assessments questions are to assess your learning of that Chapter and to help prepare you for the exam. Do not wait until the last minute to complete the prep. Chapters 3,4, and 9 have two sets of Assessments identified as Chapter # Assessment (a) and Chapter # Assessment (b).

OWL Assignments Due dates: Chapter Assessments and Chapter Problem sets will be due at 11:55 pm on a somewhat weekly basis. Check the schedule for due dates, you will find that Chapter Problem Sets are usually due on Saturdays and Assessments are usually due on Sundays. On a few occasions homework and Assessments are due just before an exam. Check the schedule to be sure. Announcements on Canvas will be made to help you complete the work on time.

Note: It is highly recommended that you buy a composition book to work on the problem sets to keep good notes and to make your studying more efficient

Exams (Canvas): There are 4 mid-term exams. All exams are cumulative but will focus mainly on content within the assigned chapters. Each exam is worth 100 points.

There will be a 24-hour period (referred to as “window of availability”) in which you have 1.5 hours to complete each exam. The window of availability will start at 3:00 pm Pacific Time Friday and end 3:00 pm Pacific Time Saturday on dates noted in the course schedule. You will not come to class to take the exam, but you still need to make sure your computer is operational and that you have good Wi-Fi to complete the exam. No exam retakes will be allowed for technical issues. You will be

asked to show your work for specific problems in the exam. This includes writing down your work or doing the calculation then scanning it on your phone, converting the scan to a pdf file and then uploading your work to the specific Canvas site within 30 minutes. Use this link If you need help in converting to a pdf file: <https://help.canvas.yale.edu/m/62761/l/1217506-how-to-create-a-pdf-of-handwritten-assignments>

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, cosChem100@sdsu.edu as soon as possible Without verifiable medical documentation you will not be allowed to make up an exam. If there is a death in your immediate family, contact the lab coordinator as soon as possible. Be prepared to provide proof of death. If you are an SDSU athlete, you must submit your schedule of competition during the first two weeks of semester so that arrangements around exam conflicts can be made.

The use of any disallowed materials/references or communication with anyone other than the instructors and coordinator during an assessment will be considered dishonest academic conduct. The instructors and coordinator reserve the right to make exceptions to this policy at their discretion. If you need to borrow a computer, contact SDSU Economic Crises Response Team for technology support at sdsu.edu/ect

Final Exam (Canvas): The final will cover all 10 chapters of the course and will be taken on Canvas. The final will be given Dec 16, from 8:00 am to 10:00 am. There will be no make-up, except in the case of appropriately documented medical absences. In the event you miss the final exam or know that you will be missing the final, contact the coordinator by email, cosChem100@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. Your Final

Lab Assignments (Haydn McNeil): Chemistry is an experimental science. As such, its principles are best illustrated in the laboratory setting. As a student in this course, you will have the opportunity to 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. You will need to include this information on your lab 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 SDSU Bookstore, or go home and take a zero on that lab.
- Lab work for Chem 100 must be performed in CSL 522, 524, 525 and 528 during the lab hours for which the student is registered. Do Not attend any other lab session other than the lab you are registered for, or you will receive a zero score for that lab.

- Because of logistical constraints, you will not be allowed to make up missed lab experiments; however, your two lowest lab report scores will be dropped when determining your course grade. Use these free passes wisely.

No matter the reason for missing a lab, the two lowest lab scores are dropped. If your third missed lab is due to medical issues, contact the lab coordinator; be prepared to show proof. If you are under mandated quarantine because of being sick with COVID, contact the lab coordinator and accommodations will be made. Be prepared to provide proof from Healthconnect. This will be a one-time accommodation

- Lab reports are due at the end of the lab period. All reports consist of completed pages for each experiment out of your lab manual. Late reports will receive no credit. No credit will be given for a lab report if the experiment was not actually done by that student.
- The lab report consists of recording data into pages, calculations and answering questions in the lab manual. Where computations are involved, numerical set-ups known as sample calculations must be shown. The final answer must include units and the correct number of significant figures. Reports must be legible. If your TA cannot read your writing, point will be taken off
- 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 fee of \$25.
- There are 10 lab participation points available. These will be assigned at the discretion of the lab TA at the end of the semester. Arriving on time, prepared for laboratory, and helping with clean-up will ensure that you receive these point

Lecture Participation: 100 points in total for lecture participation. 50 points for Aktiv participation and 50 points for Discussion. Aktiv points come from answering class questions on your phone. Three points are awarded each week. There will be 5 - 20 questions each week and if you successfully answer 50% of weekly questions you will receive the three points. If you do not attend lecture you have until midnight the day of the lecture to answer questions, but you must score 85% for full credit.

Three points per week can also be earned by responding to Discussion question.

Grading:

Your letter grade will be determined by your individual points total for the course. There will be no curving of the course grades. Below 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.

The following grades are guaranteed for the percentages shown. It is possible that the percentages may be lowered, but they will not be raised for a given letter grade. The low end of each range is a minus, the upper end is a plus.

Letter	Percentage	Letter	Percentage
A	≥ 90 - 100%	D	≥ 60 – 69.99%
B	≥ 80 – 89.99%	F	< 59.9%
C	≥ 70 – 79.99%		

The following is the grading scheme, where you can see what percentage of the overall score each item is worth.

CHEM 100 Grading Scheme					
Item	Submission	Quantity	Value (each)	Total	Percentage
Exams	Canvas	4	100	400	40.0
Final Exam	Canvas	1	125	125	12.5
Chapter Problem Sets	OWLv2	Best 10/12	10	100	10.0
Chapter Assessments	OWLv2	Best 10/12	10	100	10.0
Lab Assignments	Submit work to TA	Best 11/13	15	165	16.5
Lab Participation	Canvas	1	10	10	1.0
Lecture Participation	Canvas	Aktiv/Discuss	50/50	100	10.0
			Total	1000	100.0%

Dropping the course: It is your responsibility to follow university policies regarding Cr/NC, drops, withdrawals, and incompletes. Your last opportunity to withdraw from the course without a grade appearing on your report card is Sep. 2 at 7:59 p.m.

Students With Disabilities - At San Diego State we have excellent resources for all our students. If you are a student with a disability and believe you need special accommodations for this class, it is your responsibility to contact the Student Ability Success Center (http://go.sdsu.edu/student_affairs/sds) at (619) 594-6473 to schedule an appointment. Do this as soon as possible to avoid any delay in the receipt of your accommodations. Please note that testing accommodations based on disability are not retroactive and cannot be provided by the instructor without the student first obtaining an accommodation letter from SASC. Please also be aware that SASC has deadlines for submitting forms, if you do not meet their deadlines, no further accommodation will be offered.

Religious observances: Notify lab coordinator within the first two weeks of class of any planned absences from exams or labs due to religious observances so that we can arrange some reasonable accommodation.

Changes to the syllabus: This syllabus and schedule are subject to change in the event of extenuating circumstances. We will do our best to make these clear with announcements in class and on the Canvas website. Please pay attention to announcements made in class and lab. It is your responsibility to check on announcements made in your absence.

Additional practice problems:

One of the most common requests by students is more practice problems. The following problems from the “Exercises” section at the back of each chapter in your textbook are recommended to help with your mastery of the material prior to exams. It is recommended that you work on these in groups, identify concepts that are giving you trouble, and then bring your questions with you to office hours. Answer keys for practice problems from each chapter will be posted to the Canvas site.

Ch. Additional practice problems

1. 1-14, 18-24, 26, 29, 31,33, 36, 38, 47-48, 54-56, 58, 60, 68
2. 1-4, 9-10, 12-15, 17, 19-28, 33-42, 52-58
3. 5-12, 15, 18, 19, 23-36, 42, 44, 46, 55, 57
4. 1, 4-19, 22, 25, 27, 31-35, 40-42, 47
5. 2, 8, 12-18, 21, 22, 25-30, 34, 36-38, 48, 49
6. 1-2, 6-7, 11-12, 15-17, 20-24, 33, 35, 37, 39-43, 45-46, 48, 52-54,59
7. 2-4, 6, 10, 14-27, 29, 31, 34-36, 38, 49, 51-52, 55, 59-61
8. 1-5, 9-11, 14-20, 23, 26-28, 31, 33
9. 1-6, 8, 11-13, 15-21, 27, 28, 35, 36, 45, 51-54, 68, 72
10. 1-8, 15, 17, 18, 43, 44, 49, 50

10 Steps to Chem 100 success

1. Read the relevant chapter in the book BEFORE watching the lecture that covers that chapter. The material may not be clear at that time, but you will have an idea of where the material is headed and that will help you understand concepts.
2. Watch every lecture, take notes, and try to solve problems as they are presented. This means you must have a calculator. Do not write down the material and think “I will do it later”, there is no substitute for trying it at that moment, figuring out what you have problems with, and ASKING A QUESTION! (All questions are excellent; the only dumb questions are the ones that are not asked)

- Read the book again.
- As soon as you finish the lecture video, try relevant HW problems. Get help as needed. Well before an assessment, try all HW, even ones not assigned for credit like the ones suggested at the end of each chapter, - the answers to all are posted so you can check.
- Do all the worksheets. Not a "few", do not just "try" them, DO them, and get help as needed.
- Read the book again (and again).
- Do the practice assessments- pretend they are real, as you have a short amount of time to finish (just 50 minutes). No notes, no help. Do the practice assessments as soon as you can- this allows you to ask about where you are having trouble.
- Do NOT allow yourself to fall behind. If you think "I will catch up later" you are lying to yourself.
- Review everything that you have done - HW, worksheets, problems during lecture, lab worksheets, and the textbook. We draw assessment questions from multiple sources.
- After each assessment, look at the posted answers and figure out why you missed each problem. This will help you learn what to focus on for the next assessment

This syllabus and the following schedule are subject to change if the instructor deems it necessary

Week	Date	Lecture Schedule	Weekly Lab Schedule	Comments and Homework Due Dates
1	August 22, 2022	Introduction/Chapter 1	Lab 1 - Significant Figures, Scientific Notation, & Algebra Worksheets (Due at the beginning of Density Lab session)	Must complete Safety Survey by August 28 – BEFORE the start of Week 2
	August 24, 2022	Chapter 1		
	August 26, 2022	Chapter 1		
2	August 29, 2022	Chapter 1	Lab Check-in & Lab 2 - Density Lab (Results & Calcs, Questions due at the end of lab session)	OWL Ch 1 Problem Sets due Sat., Sept 3 at 11:55 pm, OWL Ch 1 Assessment due Sun., Sept 4 at 11:55 pm Sept 2- Last day to add/drop classes. Ends at 7:59 pm
	August 31, 2022	Chapter 2		
	September 2, 2022	Chapter 2		
3	September 5, 2022	Labor Day, No Classes	Lab 3 -Periodic Table Worksheet (Wksht due at end of session) Monday Sections will complete this worksheet the week of Thanksgiving	
	September 7, 2022	Chapter 2		
	September 9, 2022	Chapter 2		
4	September 12, 2022	Chapter 3	Lab 4 - Chemical Nomenclature (Worksheet due at beginning of next session)	Owl Chapter 2 Problem Set due Wed, Sept 14 at 11:55 pm Owl Chapter 2 Assessment due at Thurs., Sept 15 at 11:55pm Exam 1 available on Canvas 3pm Friday until 3pm Saturday
	September 14, 2022	Chapter 3		
	September 16, 2022	Review for Exam 1 (Chapters 1 & 2) Exam starts at 3 pm		
5	September 19, 2022	Chapter 3	Lab 5 - Valence-Shell Electron-Pair Repulsion Theory (VSEPR)	OWL Ch 3 Problem Sets due Sat, Sep.24 at 11:55 pm
	September 21, 2022	Chapter 3		

	September 23, 2022	Chapter 3	(Worksheet due at the end of lab session)	OWL Ch 3 Assessment due Sun., Sept 25 at 11:55 pm Sun
6	September 26, 2022	Chapter 4	Lab 6 - Separation of an Unknown Mixture (Worksheet with Results & Q's due at end of lab session)	OWL Ch 4a Problem Sets due at 11:55 pm Sat. OWL Ch 4a Assessment due at 11:55 pm, Sun
	September 28, 2022	Chapter 4		
	September 30, 2022	Chapter 4		
7	October 3, 2022	Chapter 4	Lab 7 - Determining the Specific Heat Capacity of a Metal by Calorimetry (Results & Calcs, Q's & graph due at the end of lab session)	OWL Ch 4b Problem Sets due Wed, Oct 5 at 11:55 pm, OWL Ch 4b Assessments due Thurs., Oct 6 at 11:55 pm Exam 2 available on Canvas 3pm Friday until 3pm Saturday
	October 5, 2022	Chapter 4		
	October 7, 2022	Exam 2 (Chapters 3 & 4)		
8	October 10, 2022	Chapter 5	Lab 8 - Determination of the Molar Volume of a Gas and the Gas Constant (Data, answer sheet and Calcs due at end of lab session)	OWL Ch 5 Problem Sets due Sat. Oct 15 at 11:55 pm OWL Ch 5 Assessment due Sun., Oct 16 at 11:55 pm
	October 12, 2022	Chapter 5		
	October 14, 2022	Chapter 5		
9	October 17, 2022	Chapter 6	Lab 9 - Identification of an Unknown Metal Carbonate (Results and Q's due at end of lab session)	
	October 19, 2022	Chapter 6		
	October 21, 2022	Chapter 6		
10	October 24, 2022	Chapter 6	Lab 10 - Determining the Empirical Formula of Magnesium Oxide (Results & Calcs, Q's due at the end of lab session)	OWL Ch 6 Problem Sets due Wed., Oct. 26 at 11:55 pm OWL Ch 6 Assessment due Thurs., Oct 27 at 11:55 pm Exam 3 available on Canvas 3pm Friday until 3pm Saturday
	October 26, 2022	Chapter 7		
	October 28, 2022	Exam 3 (Chapters 5 & 6)		
11	October 31, 2022	Chapter 7	Lab 12 - Acid-Base Titrations Part 1 Only (First page – Results and Calcs for base std & pictures due at the end of lab session)	OWL Ch 7 Problem Set due Sat., Nov. 5 at 11:55 pm OWL Ch 7 Assessment due Sun., Nov 6 at 11:55 pm
	November 2, 2022	Chapter 7		
	November 4, 2022	Chapter 7		
12	November 7, 2022	Chapter 8	Lab 11 - Chemical Reactions Worksheet (Worksheet due at beginning next of lab session)	Due to Friday Holiday, Students in a Friday lab may attend another lab session Nov 7 – Nov 9 to receive TA help in completing worksheet
	November 9, 2022	Chapter 8		
	November 11, 2022	Holiday-Veterans Day		
13	November 14, 2022	Chapter 8	Lab 12 - Acid-Base Titrations Part 2 (Data and acid concentration due at end of lab session)	OWL Ch 8 Problem Sets due Wed., Nov.16 at 11:55 pm OWL Cha 8 Assessment due Thurs., Nov 17 at 11:55 pm
	November 16, 2022	Chapter 9		
	November 18, 2022	Chapter 9		

14	November 21, 2022	Chapter 9	Lab 3 – Periodic Table Worksheet for Monday Labs only-No Labs for Tuesday - Friday sessions	OWL Ch 9a Problem Sets due Sat., Nov. 26 at 11:55 pm
	November 23, 2022	No Classes		OWL Ch 9a Assessment due Sun., Nov 27 at 11:55 pm
	November 25, 2022	Thanksgiving Holiday		
15	November 28, 2022	Chapter 9	Locker Check-out You must check out or face \$25 fee	OWL Ch 9b Problem Sets due Wed., Nov. 30 at 11:55 pm
	November 30, 2022	Chapter 9		OWL Ch 9b Assessment due Thurs., Dec 1 at 11:55 pm
	December 2, 2022	Review for Exam 4 (Chapters 7–9)		Exam 4 available on Canvas 3pm Friday until 3pm Saturday
16	December 5, 2022	Chapter 10		OWL Ch 10 Problem Sets due Sat Dec 10 at 11:55 pm
	December 7, 2022	Chapter 10		OWL Ch 10 Assessment due Sun., Dec11 at 11:55 pm
	December 9	Chapter 10		
17	December 12, 2022	Review		

Exam & Final Exam Dates (All on Canvas)		
	TOPIC:	Date: (Window of Availability)
Exam 1	Chapters 1 & 2	3:00 pm Sept 16 - 3:00 pm Sept 17
Exam 2	Chapters 3 & 4	3:00 pm Oct 7 - 3:00 pm Oct 8
Exam 3	Chapters 5 & 6	3:00 pm Oct 28 - 3:00 pm Oct 29
Exam 4	Chapters 7, 8 & 9	3:00 pm Dec 2 - 3:00 pm Dec 3
Final Exam	Chapters 1 - 10	Wednesday Dec 14, 8:00 am - 10:00 am

Fall 2022 Schedule:

This syllabus and schedule are subject to change if the instructor deems it necessary

Final is on Wednesday, Dec 14, from 8:00 to 10:00 am online using Canvas
Final is comprehensive and will include material from Chapter 10

Finding Help on Campus:

Need help finding help -- an advisor, tutoring, counselling, or emergency economic assistance? The [SDSU Student Success Help Desk](#) is here for you. Student assistants are available via Zoom Monday through Friday, 9:00 AM to 4:30 PM to help you find the office or service that can best assist with your particular questions or concerns.

Suggested: Consider adding a link to your college's Student Success Center or your department's tutoring center or supplementary instruction activities.

- CAL Student Success Center: <https://cal.sdsu.edu/student-resources/student-success>
- College of Education Student Success Center: <https://education.sdsu.edu/oss>
- Center for Student Success in Engineering: <https://csse.sdsu.edu/>
- CoS Student Success Center: <https://cossuccess.sdsu.edu/>
- FSB Student Success Center: <https://business.sdsu.edu/undergrad/advising>
- HHS Advisors: <https://chhs.sdsu.edu/student-resources/advising/>
- IVC Student Success and Retention: <https://imperialvalley.sdsu.edu/about/departments/student-affairs/retention>
- PSFA Advisors: https://psfa.sdsu.edu/resources/student_advisors
- Math & Stats Learning Center: <https://mlc.sdsu.edu/>

Preferred Names & Pronouns: Any student who wishes to be addressed by a name other than what is presented in Canvas is encouraged to contact the instructor or lab coordinator via email with the name you wish to use. Similarly, if you have preferred pronouns that you wish to be addressed by please contact your instructor or lab coordinator. We will communicate your desires to the TAs and all instructional staff will gladly honor your request.

Sexual violence / Title IX mandated reporting: As an instructor, one of my responsibilities is to help create a safe learning environment on our campus. I am a mandated reporter in my role as an SDSU employee. It is my goal that you feel able to share information related to your life experiences in classroom discussions, in your written work, and in our one-on-one meetings. I will seek to keep the information you share private to the greatest extent possible. However, I am required to share information regarding sexual violence on SDSU's campus with the Title IX coordinator, Jessica Rentto 619-594-6017. She (or her designee) will contact you to let you know about accommodations and support services at SDSU and possibilities for holding accountable the person who harmed you. Know that you will not be forced to share information you do not wish to disclose, and your level of involvement will be your choice. If you do not want the Title IX Officer notified, instead of disclosing this information to your instructor, you can speak confidentially with the following people on campus and in the community. They can connect you with support services and discuss options for pursuing a University or criminal investigation. Sexual Violence Victim Advocate 619-594-0210 or Counseling and Psychological Services 619-594-5220, psycserv@sdsu.edu. For more information regarding your university rights and options as a survivor of sexual misconduct or sexual violence, please visit titleix.sdsu.edu or sdsutalks.sdsu.edu.

COVID-19 Protocols

Vaccination and testing protocols set by the CSU and SDSU will be enforced. Make sure to upload proof of your COVID-19 booster shot to [Healthconnect](https://healthconnect.sdsu.edu). For more information use the following link: <https://sacd.sdsu.edu/student-health-services/covid-19>

Beginning Monday, Aug. 15, all faculty, staff and students will be required to wear a facial covering in instructional settings regardless of vaccination status.

Facial Coverings Required

Facial coverings are *required* when in instructional settings, whether indoors or outdoors. This includes classrooms, instructional labs, spaces being actively used in an instructional capacity, and the library.

Instructional faculty, teaching assistants and interpreters who are fully up to date with their vaccinations can remove their facial coverings when teaching as long as students are masked in the classroom.

Facial coverings will also continue to be required for all individuals in limited environments that have licensing or other requirements, such as the Children's Center and Student Health Services.

This policy will be in place until Thursday, Sept. 15. Our university will continue to monitor the COVID-19 situation and communicate updates to the campus community as we approach that date.

If you are experiencing COVID symptoms seek immediate testing at Student Health Services or pick-up a rapid test at one of the on campus vending machines

SDSU Economic Crisis Response Team:

If you or a friend are experiencing food or housing insecurity, technology concerns, or any unforeseen financial crisis, it is easy to get help! Visit <https://sacd.sdsu.edu/ecrt> for more information or to submit a request for assistance. SDSU's Economic Crisis Response Team (ECRT) aims to bridge the gap in resources for students experiencing immediate food, housing, or unforeseen financial crises that impacts student success. Using a holistic approach to well-being, ECRT supports students through crisis by leveraging a campus-wide collaboration that utilizes on and off-campus partnerships and provides direct referrals based on each student's unique circumstances. ECRT empowers students to identify and access long term, sustainable solutions in an effort to successfully graduate from SDSU. Within 24 to 72 hours of submitting a referral, students are contacted by the ECRT Coordinator and are quickly connected to the appropriate resources and services.

For students who need assistance accessing technology for their classes, visit our ECRT website <https://sacd.sdsu.edu/ecrt> to be connected with the SDSU library's technology checkout program. The technology checkout program is available to both SDSU and Imperial Valley students.

Land Acknowledgement:

We stand upon a land that carries the footsteps of millennia of Kumeyaay people. They are a people whose traditional lifeways intertwine with a worldview of earth and sky in a community of living beings. This land is part of a relationship that has nourished, healed, protected and embraced the Kumeyaay people to the present day. It is part of a world view founded in the harmony of the cycles of the sky and balance in the forces of life. For the Kumeyaay, red and black represent the balance of those forces that provide for harmony within our bodies as well as the world around us.

As students, faculty, staff and alumni of San Diego State University we acknowledge this legacy from the Kumeyaay. We promote this balance in life as we pursue our goals of knowledge and understanding. We find inspiration in the Kumeyaay spirit to open our minds and hearts. It is the legacy of the red and black. It is the land of the Kumeya. 'eyay e'haan - My heart is good

