

Chemistry 100: Introduction to General Chemistry Spring 2022

Instructor: Dr. Regis Komperda (she/her): rkomperda@sdsu.edu Office and Lab: GMCS 203

Lecture time and location: 1:00 pm to 1:50 pm., Mondays, Wednesdays & Fridays, ENS 280

Modes of Instruction: **From Jan 19 until Feb 7**, lecture and lab classes will be online accessed through a Zoom link provided on Canvas. After Feb 7, instruction will pivot to 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**.

Instructor Office Hours: Mondays & Wednesdays 2–3 pm, Thursdays 1:30–2:30 pm
Dr. Komperda will hold office hours through the Math & Stats Learning Center (<https://mlc.sdsu.edu>). The MSLC will be virtual through Feb 7, then in the Love Library, Room 328). Appointments can be arranged at other times by emailing Dr. Komperda.

Lab Coordinator: Laurie Clare, M.S. (email: Lclare+chem100@sdsu.edu)
Office Hours: CSL 313, by appointment only

Lab Rooms: CSL 522, 524 (5th floor Chemical Sciences Laboratory Building)

Waitlist: *Waitlist students should email Lclare+chem100@sdsu.edu with your name and Red ID info ASAP 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. Because of mandatory online labs at the start of the semester, lab attendance will be done using Zoom. Use the following link to the chem 100 website to find information regarding resources so that you do not miss any assignments (<http://www.chemistry.sdsu.edu/courses/CHEM100/>).
You are 100% responsible for all assignments that are due and for keeping up with the work while on waitlist.

Immediate Access: All the required course materials are available in a digital format by the first day of classes and are free through the add/drop date of **February 1, 2022**. Your SDSU student account will then be charged a special reduced price for use of the materials for the remainder of the semester unless you opt-out of the content by 11:59 PM on the add/drop date **February 1, 2022**. Please visit www.shopaztecs.com/immediateaccess for additional information about Immediate Access pricing, digital subscription duration, print add-ons, opting out and other frequently asked questions.

- Textbook (Required):** Blei and Odian, *Introduction to General Chemistry 2nd edition*, ISBN 9780738080710 (Use Immediate Access link available on Canvas)
- Study aides (Optional): Study Guide for General, Organic, and Biochemistry, Second Edition (2006) M.L. Gillette & W. Gloffke
- Lab Manual (Required):** Chem 100 Lab Manual, Chemistry Dept. Printed by Hayden MacNeil, Fall, 2021 and Spring 2022. **The lab manual is available through the SDSU bookstore.**
- iClicker (required):** The iClicker electronic response system is available from the SDSU bookstore. Either the app, website, or physical device may be used.
- Lab Equipment (Required):** Safety glasses, flame resistant lab coat or lab apron and nitrile gloves can be purchased at the SDSU bookstore.
- Additional items (Required):** **Calculator (e.g., TI-30Xa or Casio fx-300ms plus):** needs to be a scientific but non-graphing and non-programmable. The recommended calculator for this course is the Casio fx-300ms-plus calculator
- OWLv2 (required):** 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.** Your SDSU student account will be charged \$25.00 for the use of OWL.
- Online Resources:**
- **Canvas:** Canvas will be used as the Learning Management System (LMS) for 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.
 - **Lab Simulations (Hayden McNeil):** During the first days of mandatory online instruction, lab simulations will be used. **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.**
 - If the mandatory online period is extended, you will receive further instruction on which lab simulations to access. Upon return to Face-to-face instruction, we will use the experiments and worksheets in the lab manual and all work will be submitted to the lab TA before leaving the lab.
 - All online lab worksheets will be uploaded to Canvas as a pdf file. Use your phone to take a photo or scan the document. Make sure that the file uploaded to Canvas is a pdf file.

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](#). If you opt for exemption, you must provide COVID-19 test results every 5-7 days. Plan accordingly, missing lab because of non-clearance is not a valid excuse and will result in zero scores. For more information use the following link: <https://sacd.sdsu.edu/student-health-services/covid-19>

USE CHROME AS YOUR BROWSER FOR THIS COURSE!!!

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

Prerequisites: Strong working ability with high school level algebra

Email Policy: 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.**

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](#).

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

Enrolled students: *It is absolutely crucial that you attend the first three laboratory periods(Both Zoom and Face to Face).* Failure to do so may result in your spot in the laboratory section being given to another student. Notify the laboratory coordinator (Lclare+chem100@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.

*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.

To be successful in this course, you will need to spend a considerable amount of time

(approximately 12 hours per week) outside of class on reading, studying, and working on homework. Each chapter should be read prior to initial discussion in lecture. Rereading the text after lecture will help in understanding the material and reinforcing lecture topics. Homework problems are best completed as they are being presented and discussed in lecture. Do not put off study and homework assignments until the night before the exam or you will fail. Attendance at labs is a must unless you are seriously ill.

CHEM 100 Student Help:

I highly recommend 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. Again, I urge you to take advantage of these free tutorials, discussions of lecture/lab material, and homework help.

The Mathematics and Statistics Learning Center (MSLC):

Instructor and TA Office Hours for this courses will be held in the MSLC (<https://mlc.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.

Following SDSU guidelines, all visits to the MSLC will be virtual through Feb 6. To join virtual help room hours go to <https://mlc.sdsu.edu/> → Click on “Enter Virtual MSLC here!” → Fill out and submit the form.

Starting Feb 7, options for in-person help will be available in the MSLC space in the Love Library, Room 328.

For a full list of courses tutored and the most recent schedule of virtual and face to face help room hours, please visit the MSLC website: <https://mlc.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 attend the MLC is almost one full grade higher than those who don't seek such support.**

Supplemental Instruction (SI):

Free study sessions designed to keep you up to date with the course. SI Sessions are open to all students, and you can attend as many sessions as you want throughout the semester. Participation is completely voluntary, and the instructor does not know who participates.

SI Sessions are led by an SI Leader, a *current student* who has recently successfully completed the course. 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.

Why Attend SI?

- Keep up with the class material
- Study with other students in live time (don't study alone!)
- Meet other students from the class

- Improve your grade

CHECK OUT THE SI CALENDAR: bit.ly/chem100sicalendar

- SI Program: bit.ly/SIatSDSU
- Meet the SI Leaders: <https://caa.sdsu.edu/supplemental-instruction/leaders/chem100>

To get the most out of SI, attend early and often.

Course Design: Major Assignments and Assessments

Exams (Canvas): There are 4 mid-term exams that will be administered through Canvas. All exams are cumulative but will focus mainly on content within the assigned chapters. Each exam is worth 100 points, 90 points are dedicated to the exam itself and 10 points for the Learning Activity (an opportunity to reflect on and correct mistakes).

There will be a 24-hour period (referred to as “window of availability”) in which you have 90 minutes 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 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. Failure to upload your 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, Lclare+chem100@sdsu.edu, as soon as possible Without verifiable medical documentation you will not be allowed to make up an exam. 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/ecrt

Learning Activities (Canvas): Worth 10 points after each exam. You will have opportunities after each exam to correct 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 must be uploaded to Canvas as a pdf file.

Final Exam (Canvas): The final exam will cover all 10 chapters of the course and will be given on Canvas May 6, from 1:00 pm to 3:00 pm. 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,

Lclare+chem100@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.

OWLv2 Assignments: Before you begin the regular assignments, 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 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 chapter sets denoted as Chapter #a and Chapter #b. Work on the problems several days before it's due so you have time to go to the MSLC for tutoring or find any Chem 100 TA at the MSLC and 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.
- OWL scores will be uploaded at the end of the semester. Please watch your email for important announcements regarding the uploads. Score errors will occur due to incorrect Red ID 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 extensions will not be granted. Complete the Chapter Problems Sets first then complete Chapter Assessments. **You will have two 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 Assessment #a and Assessment #b

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

Note: *I highly recommend you buy a composition book to work on the problem sets to keep good notes and to make your studying more efficient*

Lab Assignments (Hayden-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.

- The first two lab sessions will be held on Zoom, not in the classroom. A Zoom session with your TA will be held for the Significant Figures Lab and for the Density lab. There will be two simulation assignments for the Density lab, the first is an Introduction to Lab Simulations and then the second is the Simulation Lab for Density. Completed worksheets from the labs will be uploaded as a pdf file on Canvas.
- **When conducting experiments, all persons present in a chemistry laboratory must wear approved eye protection, flame resistant (blue) lab coat or flame-resistant yellow apron, pants or skirts (with no holes) that end below mid-calf and closed-toe shoes. 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.
- 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 and 524 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.
- 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 work 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
- You and a partner will be checking into a locker, and you 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 **10 lab participation points available**. One participation point is for completing the Hazardous Materials and Hazardous Equipment Training Survey located in the Lab Participation Module on Canvas. The balance of the 9 points 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 points.

Lecture Participation (iClicker/PlayPosit/Canvas): Your regular engagement with course material is important for your success in the course. You will have multiple ways of earning lecture participation points and can choose the method that you prefer. **A maximum of 75 lecture participation points can be earned throughout the semester.**

iClicker: The iClicker system will be used to poll students on questions during regular synchronous class sessions (1–1:50pm MWF). **A maximum of two points can be earned per class session**, one point for any response, and an additional point for a correct response of any

of the questions. You may use the iClicker app, website or physical device. To receive credit, you need to create an account in the iClicker student app—even if you are using the physical device:

- The First and Last Name in your iClicker account should match your name in Canvas
- The email in your iClicker account should be your SDSU email
- The Student ID in your iClicker account is your REDID.

Contact the student help desk at the Library Hub in the Love Library for assistance (619-594-3189 or hub@sdsu.edu). There is also a Chat support option.

PlayPosit: Pre-recorded lecture videos will be made available in Canvas that have embedded PlayPosit questions related to the chemistry content. These videos can be rewatched and the questions reanswered as many times as you would like until you earn a score you are satisfied with. **A maximum of two points can be earned per video.**

Other participation opportunities: Throughout the semester your instructor will make you aware of other ways to earn participation credit. This may involve completing a short activity, quiz, or survey. Point values for these opportunities will be provided when they become available.

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.

Letter	Percentage	Letter	Percentage
A	≥ 90%	D	≥ 60%
B	≥ 80%	F	< 59.9%
C	≥ 70%		

Earning the respective percentage in the course listed above 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.

Your grade will be based on the following:

CHEM 100 Grade Scheme					
Item	Submission	Quantity	Value (each)	Total	Percentage
Exams	Canvas	4	90	360	36.0%
Learning Activities	Canvas	4	10	40	4.0%
Final Exam	Canvas	1	150	150	15.0%
Chapter Problem Sets	OWLv2	Best 10/12	10	100	10.0%
Chapter Assessments	OWLv2	Best 10/12	10	100	10.0%

Lab Assignments	Submit to TA	Best 11/13	15	165	16.5%
Lab Participation	Canvas	1	10	10	1.0%
Lecture Participation	Canvas/ Clickers	TBD	TBD	75	7.5%
			Total	1000	100.0%

Note: Your individual grades for each course component will be posted on Canvas. You will have the 7 days to check your grades and to email the coordinator of any issues with your grades, such as, they are not showing up. Failure to do so will result in the grades being left as a zero. There will be several announcements reminding you to check your grades. Grades should appear in Canvas within 7 days after submission and you will have 7 days **after** to check your grades.

Statement on Cheating and Plagiarism: 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. Typically, such acts occur in relation to examinations. However, it is the intent of this definition that the term 'cheating' not be limited to examination situations only, but that it includes any and all actions by a student that are intended to gain an unearned academic advantage by fraudulent or deceptive means. Plagiarism is a specific form of cheating which consists of the misuse of the published and/or unpublished works of others by misrepresenting the material (i.e., their intellectual property) so used as one's own work. 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.

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 **February 1, 2022 at 7:59 p.m.**

Accommodations (SASC):

If you are a student with a disability and believe you will need accommodations for this class, it is your responsibility to contact Student Ability Success Center. To avoid any delay in the receipt of your accommodations, you should contact Student Ability Success Center as soon as possible at sascinfo@sdsu.edu (or go to sdsu.edu/sasc). Please note that accommodations are not retroactive, and that I cannot provide accommodations based upon disability until I have received an accommodation letter from Student Ability Success Center. Your cooperation is appreciated.

Changes to the syllabus: This syllabus and schedule are subject to change in the event of extenuating circumstances. I will do my best to make these 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

Holidays: For our Spring 2022 semester, classes will not be held on Friday, March 18 due to

SDSU hosting a NCAA basketball game. This will be an automatic dropped lab for the Friday lab. Spring Break occurs from March 28 to April 1. March 31 is Cesar Chavez Day

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. Use this email address: Lclare+chem100@sdsu.edu

Spring 2022 Schedule. All dates and times are Pacific. This syllabus and schedule are subject to change if the instructor deems it necessary or the university announces changes to instruction.

Week	Date	Lecture Schedule	Weekly Lab Schedule	Comments and Homework Due Dates
1	January 17, 2022		Online Labs begin Jan 24. (2 nd Week) Face to Face labs begin February 7	Lecture participation: Syllabus Scavenger Hunt
	January 19, 2022	Introduction/Chapter 1		
	January 21, 2022	Chapter 1		
2	January 24, 2022	Chapter 1	Lab 1 - Significant Figures, Scientific Notation, & Algebra Worksheet (Due at the beginning of your next lab session)	OWL Ch 1 Problem Sets due at 11:55 pm, Sat, Jan 29 th OWL Ch 1 Assessment due at 11:55 pm Sunday Jan 30 th
	January 26, 2022	Chapter 1		
	January 28, 2022	Chapter 2		
3	January 31, 2022	Chapter 2	Lab 2 - Density Lab Simulation (Results & Calcs, Questions due at the end of lab session)	Feb 1- Last day to add/drop classes. Ends at 7:59 pm OWL Ch 2 Problem Sets due at 11:55 pm, Sat. Feb 5 th OWL Ch 2 Assessment due at 11:55 pm Sun. Feb 6 th
	February 2, 2022	Chapter 2		
	February 4, 2022	Chapter 2		
4	February 7, 2022	Chapter 3	Lab Check-in Must complete Safety Survey before Lab Check-in Lab 3 -Periodic Table Worksheet (Wksht due at end of session)	Exam 1 available 3pm Friday until 3pm Saturday
	February 9, 2022	Chapter 3		
	February 11, 2022	Review for Exam 1 (Chapters 1 & 2)		
5	February 14, 2022	Chapter 3	Lab 4 - Chemical Nomenclature (Worksheet due at the end of session)	OWL Ch 3a Problem Sets due at 11:55 pm, Sat Feb 19 th OWL Ch 3a Assessment due at 11:55 pm Sun, Feb 20 th
	February 16, 2022	Chapter 3		
	February 18, 2022	Chapter 3		
6	February 21, 2022	Chapter 3	Lab 5 - Valence-Shell Electron-Pair Repulsion Theory (VSEPR) (Worksheet due at the end of lab session)	OWL Ch 3b Problem Sets due at 11:55 pm Sat., Feb 26 th OWL Ch 3b Assessment due at 11:55 pm, Sun., Feb 27 th
	February 23, 2022	Chapter 6		
	February 25, 2022	Chapter 6		
7	February 28, 2022	Chapter 6	Lab 6 - Separation of an Unknown Mixture (Results & Q's due at end of lab session)	OWL Ch 6 Problem Sets due at 11:55 pm, Tue, March 1 st OWL Ch 6 Assessments due at 11:55 pm, Wed, March 2 nd Exam 2 available 3pm Friday until 3pm Saturday
	March 2, 2022	Chapter 4		
	March 4, 2022	Review for Exam 2 (Chapters 3 & 6)		
8	March 7, 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)	OWLCh 4a Problem Sets due at 11:55 pm Sat, March 12 th OWL Ch 4a Assessment due at 11:55 pm, Sun, March 13 th
	March 9, 2022	Chapter 4		
	March 11, 2022	Chapter 4		

Week	Date	Lecture Schedule	Weekly Lab Schedule	Comments and Homework Due Dates
Week	Date	Lecture Schedule	Weekly Lab Schedule	Comments and Homework Due Dates
9	March 14, 2022	Chapter 4	Lab 10 - Determining the Empirical Formula of Magnesium Oxide	OWL Ch 4b Problem Sets due at 11:55 pm Sat., March 19 th
	March 16, 2022	Chapter 4		
	March 18, 2022	No Class or Labs NCAA Tournament	(Results & Calcs, Q's due at the end of lab session)	OWL Ch 4b Assessment due at 11:55 pm Sun., March 20 th
10	March 21, 2022	Chapter 5	Lab 8 - Determination of the Molar Volume of a Gas and the Gas Constant	OWL Ch 5 Problem Sets due at 11:55 pm Sat., March 26 th
	March 23, 2022	Chapter 5		
	March 25, 2022	Chapter 5	(Data answer sheet and Calcs due at end of lab session)	OWL Ch 5 Assessment due at 11:55 pm Sun., March 27 th
11	March 28, 2022	Spring Break	SPRING BREAK	SPRING BREAK
	March 30, 2022	Spring Break		
	April 1, 2022	Spring Break		
12	April 4, 2022	Chapter 7	Lab 9 - Identification of an Unknown Metal Carbonate	Exam 3 available 3pm Friday until 3pm Saturday
	April 6, 2022	Chapter 7		
	April 8, 2022	Review for Exam 3 (Chapters 4 & 5)	(Results and Q's due at end of lab session)	
13	April 11, 2022	Chapter 7	Lab 11 - Chemical Reactions Worksheet	OWL Ch 7&8 Problem Sets due 11:55 pm Sat., April 16 th
	April 13, 2022	Chapter 8		
	April 15, 2022	Chapter 8	(Worksheet due at end of lab session)	OWL Cha 7&8 Assessment due 11:55 pm Sun., April 17 th
14	April 18, 2022	Chapter 9	Lab 12 - Acid-Base Titrations Part 1 Only	OWL Ch 9a Problem Sets due 11:55 pm., Sat April 23 rd
	April 20, 2022	Chapter 9		
	April 22, 2022	Chapter 9	(First page – Results and Calcs for base std & pictures due at the end of lab session)	OWL Ch 9a Assessment due at 11:55 pm Sun., April 24 th
15	April 25, 2022	Chapter 9	Lab 12 - Acid-Base Titrations Part 2	OWL Ch 9b Problem Sets due 11:55 pm., Wed April 27
	April 27, 2022	Chapter 9		
	April 29, 2022	Review for Exam 4 (Chapters 7–9)	(Data and acid concentration due at end of lab session) Locker Check-out	OWL Ch 9b Assessment due at 11:55 pm Thurs., April 28 th Exam 4 available 3pm Friday until 3pm Saturday
16	May 2, 2022	Chapter 10	Last Week of Classes – No Labs	OWL Ch 10 Problem Sets due 11:55 pm Weds., May 4 th
	May 4, 2022	Chapter 10		

Final Exam for Dr Komperda is Friday May 6, 1:00pm to 3:00 pm.

Exam & Final Exam Dates		
	Topic:	Date: (Window of Availability)
Exam 1	Chapters 1 & 2	3:00 pm February 11 – 3:00 pm February 12
Exam 2	Chapters 3 & 6	3:00 pm March 4 — 3:00 pm March 5
Exam 3	Chapters 4 & 5	3:00 pm April 8 — 3:00 pm April 9
Exam 4	Chapters 7, 8 & 9	3:00 pm April 29 — 3:00 pm April 30
Final Exam	Chapters 1—10	1:00 pm May 06 — 3:00 pm May 06

Assignment Policy: Assignments due dates are to be treated as hard deadlines. Extensions will not be granted. All assignments will be scheduled with sufficient time to allow you to complete the assignment in advance of the "last minute". *Consequently, you are solely responsible for any failures to complete the assignment by the scheduled time.* Problems such as lack of internet service, OWLv2 site problems, or dogs eating WiFi antennas will not be acceptable reasons for not completing the assignments. *You are encouraged to complete the assignments well before the deadlines to avoid potential technological obstacles.*

In the case of an extended system-wide failure the instructors will be notified by the site operator and steps will be taken to accommodate any problems that arise.

For all technical difficulties or errors that arise with the **OWLv2** systems please contact the lab coordinator, Laurie Clare by email (Lclare+chem100@sdsu.edu). Include your name, your lab section number and a screenshot of the problem. If we pivot to online lab simulations and problems occur with simulation contact **Hayden McNeil**. The instructors, lab coordinator, and TAs will be unable to help you resolve anything but the most basic (is it plugged in?) technical problems.

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)
3. Read the book again.
4. As soon as you finish the lecture, 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.
5. Do all the worksheets. Not a "few", do not just "try" them, DO them, and get help as needed.
6. Read the book again (and again).
7. 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.
8. Do NOT allow yourself to fall behind. If you think "I will catch up later" you are lying to yourself.
9. Review everything that you have done - HW, worksheets, problems during lecture, lab worksheets, and the textbook. We draw assessment questions from multiple sources.
10. 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

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 to help you find the office or service that can best assist with your particular questions or concerns.

- 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://ivcampus.sdsu.edu/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 who 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.

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 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 (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.

Help control the COVID-19 pandemic: Addressing COVID-19 is a shared responsibility. Each of us has a role to play in keeping our learning environments and campus as safe as possible. To that effect, it is critical students are aware of SDSU policies regarding masking and social distancing. Individuals are required to provide their own facial coverings but if you need assistance purchasing facial coverings, please contact the [Economic Crisis Response Team](#).

Land Acknowledgement:

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.

