Chemistry 100 Introduction to General Chemistry Fall 2021

ENS 280, 4 Units, MWF, 1:00 - 1:50 pm

<u>Instructor:</u> Professor John J Love

Department of Chemistry & Biochemistry

Office: CSL 339 Email: jlove@sdsu.edu

Crasher's Website: http://www.chemistry.sdsu.edu/courses/CHEM100

<u>Laboratory Coordinator:</u> Laurie Clare

Office: CSL 313

Email: Lclare+chem100@sdsu.edu)

Course time: 1:00 – 1:50 pm, Monday, Wednesday, Friday, ENS 280

<u>Laboratory Rooms:</u> CSL 522, 524, 525 & 528

Professor Love's Office hours: 12:00 – 1:00 pm, Tues & Thurs. in CSL 508 (if Dr. Love is

not in CSL 508 then go to his lab/office in CSL 339.) If necessary, see Dr. Love after class to make an

appointment for an alternative time.

Required Textbook Available through Immediate Access – Blei and Odian:

Intro to General Chemistry 2nd edition.

ISBN 9780738080710

Online Homework (required): Cengage OWLv2 will be used extensively for online

homework. There will be two types of homework: Chapter

Problem Sets and Chapter Assessments.

<u>Lab Manual (required):</u> Chem 100 Lab Manual, Chemistry Dept. Printed by

Hayden MacNeil, Fall-Spring 2021. The lab manual is available at the SDSU bookstore. In the event of an increase in COVID cases where it becomes mandatory to suspend face-to-face 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 online

courses.haydenmcneil.com

Lab Equipment (required):Safety glasses, lab coat or lab apron and nitrile gloves.

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

i>clicker (required): The i>clicker Personal Response Pad, also called a

clicker, is purchased from the SDSU bookstore.

Study aides (Optional): Study Guide for General, Organic, and Biochemistry,

Second Edition (2006) M.L. Gillette & W. Gloffke

Online Resources:

<u>Canvas:</u> 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

<u>Lab Simulations (Hayden McNeil):</u> Only in the event of high COVID infections will we pivot to using lab simulations. Completed worksheets from lab simulations will be submitted to Turnitin

(Only if needed) Turnitin is a program that will allow you to submit a PDF file of your Hayden McNeil experiment and Data Analysis Lab Report. If needed, Turnitin accounts will be provided through the course Canvas page. If after the pivot to online labs you fail to submit your assignments before your assignments are due, it will be an automatic zero. Assignments that are plagiarized will be an automatic zero and will be reported. Make sure you turn in the proper assignment into the correct Turnitin folder. Failure to do so will result in a point penalty at the discretion of the lab coordinator. Note: If you have upload issues, email the lab coordinator with a PDF file of your assignment with your section number before the deadline. Once again, both the lab simulations and Turnitin online platforms will be used only in the event of San Diego State University pivoting to online courses due to a high number of COVID cases.

USE CHROME AS YOUR BROWSER FOR THIS COURSE!!!

If you are using an Ipad be sure to download Chrome as a browser.

Immediate Access Course: Some or all of the required materials for this class are provided in digital format within Canvas. The materials are available by the first day of classes and are free through the add/drop date. The SDSU add/drop deadline is at 7:59 p.m. PDT, but you have until 11:59 p.m. PDT to opt out of Immediate Access. Unless you opt out of Immediate Access by 11:59 p.m. PDT on the add/drop date, your SDSU student account will then be charged the special reduced price for the use of the materials for the remainder of the semester. Please visit www.ahopaztecs.com/immediateacccess for additional information about Immediate Access pricing, digital subscription duration, print add-ons, opting out and other frequently asked question

Enrolled students: It is important that you attend all of your laboratory sessions.

You must 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 ((<u>Lclare+chem100@sdsu.edu</u>) as soon as possible so your place can be given to a waitlisted student. If you attend a lab session for which you are not enrolled after the drop/add date, you will receive a zero on that week's lab assignment.

Waitlist: First things first: Waitlist students should email Lclare+chem100@sdsu.edu with their name and RedID info ASAP in order 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.

COVID-19 Policy for Fall '21: Effective Fall 2021, students who register for face-to-face classes are expected to attend as indicated in the course schedule. Faculty teaching face-to-face courses will not be required to create a new, alternative on-line class as an accommodation for any student.

Students with medical conditions that would present a COVID-related risk in a face-to-face instructional setting should contact the Student Ability Success Center (https://sdsu.edu/sasc) to begin the process of getting support. Students who do not adhere to the Covid19 Student Policies or the directives of their faculty will be directed to leave the classroom and will be referred to the Center for Student Rights and Responsibilities.

Do not come to campus if you do not feel well. Remain home and monitor your symptoms and seek medical attention as needed.

Email Policy: Students are provided with an SDSU Gmail account, and this <u>SDSU email address</u> 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 <u>Student Official Email Address</u> <u>Use Policy here</u>. Scroll to the bottom of the page

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.

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 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. The instructor will communicate your desires to the TAs and all instructional staff will gladly honor your request.

The course:

Course attendance Policy: Students are absolutely expected to attend all lectures.

Prerequisites: Strong working ability with high school level algebra.

Course enrollment: You must be enrolled in one laboratory section as well as lecture. If you do not attend the lab section in which you are enrolled, your spot may be given to another student.

Student Learning Outcomes: Chemistry 100 is an introduction to general chemistry. By the end of this course a successful student will be able to:

- 1. Execute basic chemistry calculations such as unit conversions and stoichiometry;
- 2. Explain the basic principles of atomic theory and chemical bonding;
- 3. Quantitatively and qualitatively describe physical and chemical properties of matter;
- 4. Illustrate the concept of dynamic equilibrium with acid-base chemistry;
- 5. Analyze a problem and decide the best method to solve;
- 6. Understand how the material relates to examples drawn from news and life;
- 7. Combine material learned in individual chapters to form an overall "big picture";
- 8. Safely and confidently conduct protocols in a laboratory environment.

9.

This course fulfills the GE Natural Sciences and Quantitative Reasoning requirement.

This class requires <u>A MINIMUM OF 15 hours</u> of your time per week to complete! In order to be successful in this course, you will need to spend a considerable amount of extra (non-lab or classroom) time which is estimated to be, at minimum, 9 hours per week spent on reading, studying, and 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 offstudy and homework assignments until the night before the exam or you will fail. Attendance at labs is a must, unless you are seriously ill and have legitimate documentation.

Many of you are interested in taking CHEM 200 after CHEM 100. The prerequisites for CHEM 200 are one year of high school chemistry, two years of algebra, and a passing score on the Placement Test, or a passing grade (C or higher, **NOT** a C-) in CHEM 100. Chemistry 100 is a demanding, 4-unit coursewhich requires a large amount of time and your commitment to work hard! (Please do **NOT** take this course unless you are prepared to commit the necessary time and hard work.) It is advisable that you make Chemistry 100 the focus of your semester and that you do **NOT** overburden yourself with an unmanageable course load while taking this course. We very much want you to succeed in this course. **YOUR** success requires a large time commitment and hard work – please do **NOT** take this course unless you are willing to allow sufficient time to study, attend **ALL** lectures, and attend **ALL** labs with preparation in advance. You will enjoy your semester in Chemistry 100 – and y ou will benefit in the sciences so much more from all that you learn – if you allow yourself the necessary time to work hard and succeed! **YOU MUST ALLOW ADEQUATE TIME IF YOU TAKE THIS COURSE!**

CHEM 100 Student help will be available in the Math & Stats 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 end of the first week of the semester.

I <u>highly</u> 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. 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.

Textbook: You **ABSOLUTELY** must purchase the textbook for this course (see page 1 for textbook title). You will be required to have access to your textbook for **EVERY** class. Reading of certain textbook passages will

be required during many of the lectures. The reading of key passages from the textbook will be followed with i>clicker questions.

Class Participation (Clickers): You are required to purchase an i>clicker remote for in-class participation. i>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 three to five 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 the i>clicker. A histogram of responses is displayed at the end of each exercise. The purpose of this exercise is to identify any misunderstandings with the material and encourage active learning. A small percentage of your total grade will derive from this form of in-class participation. For you to receive this credit, you MUST register your i>clicker remote for this class through a link in your SDSU Canvas course menu. In order to get i>clicker point credit you must register your clicker with this course through the SDSU Canvas system. This is different than registering you clicker with the clicker company (which is not necessary to receive credit for i>clicker points). You will use your i>clicker remote during almost every lecture and therefore you are responsible for bringing your i>clicker remote to every lecture. All information pertaining to i>clickers can be found at the SDSU website - http://clicker.sdsu.edu/. Students who forget their clicker, or if their clicker malfunctions (e.g., batteries fail) will **NOT** receive any points for that particular session.

A maximum of 50 total grade points can be earned from clicker participation. Each student receives one clicker point for participation per session (class), and an additional point if the student chooses the correct answer. At the end of the semester, a student's clicker points are added and then increased by 10% to allow for absences, malfunctioning clickers, and all other possible problems. The clicker points are then normalized to the maximum of 50 grade points. For example, if there are 100clicker questions asked during the entire semester, there are 100 possible clicker question points. Astudent who earns 67 clicker points (after the 10% increase) will receive 33.5 grade points. [Let's say you earned 61 clicker points; 61 plus 10% of 61 is approximately 67. 67/100 x 50 possible points = 33.5 points total for clicker participation].

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

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

Statement on Cheating and Plagiarism: Academic honesty – DO NOT cheat! If you cheat you will receive an F for the course and possibly be expelled from SDSU. 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 include any and all actions by a student that are intended to gain an unearned academic advantage by fraudulent or deceptive means. Plagiarismis 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.

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
Α	≥ 90%	D
В	≥ 80%	F
С	≥ 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 Fall 21 Grade Scheme					
ltem	Submission	Quantity	Value (each)	Total	Percentage
Chapter Problem Set	OWLv2	10	10	100	8.4%
Chapter Assessments	OWLv2	10	15	150	12.7%
Exams	OWLv2	3	165	495	41.8%
Final	OWLv2	1	215	215	18.1%
Experiment Reports	Submit to your TA	Best 11 of 12	15	165	13.9%
Lab Participation	Canvas		10	10	0.8%
Lecture Participation (I>clicker) Points	Canvas			50	4.2%
			Total	1185	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 grade

Exams (Cengage): There will be 3 mid-term exams. Each exam will occur on a Friday (see schedule below) and online using OWL. You will have a 24 window in which to start and finish the exam within 2 hours. The window to start the exam will begin at 2pm on the Friday/Exam Day and will end at 2pm Saturday. You will not come to class to take the exam. Each exam will cover chapters and information as seen in the Fall 21' schedule below. Any absence from an exam which is not excused before the exam will result in an automatic zero for that exam. The use of any disallowed materials/references or communication with anyone other than the instructor or coordinator during an exam will be considered dishonest academic conduct. The instructor 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

Final Exam (Cengage): The final will be given on Dec 10 from 1:00 - 3:00 p.m. using OWL and will cover all 10 chapters of the course. You will have a 3-hour window in which to start and complete the Final within 2 hours. There will be no make-up for the final, except in the case of appropriately documented medical absences. The

use of any disallowed materials/references or communication with anyone other than the instructor or coordinator during an exam will be considered dishonest academic conduct. The instructor and coordinator reserve the right to make exceptions to this policy at their discretion.

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 **September 3, 2021, at 7:59 p.m**.

Accommodations (SASC): SDSU via the Student Ability Success Center (SASC) provides accommodations for students with documented disabilities or medical conditions covered under the Americans with Disabilities Act (ADA). In keeping with current public health guidance, I cannot provide arrangements to students without an ADA-qualified disability or medical condition. If you are a student with a disability and are in need of accommodations for this class, please contact the Student Ability Success Center at sascinfo@sdsu.edu (or go to sdsu.edu (or go to <a href="mailto:sdsu.edu (or go to sdsu.edu (or go to <a href="mailto:sdsu.edu (or go to sdsu.edu (or go to <a href="mailto:sdsu.edu (or go to sdsu.edu (or go to <a href="mailto:sdsu.e

<u>Religious Observances</u> According to the University Policy File, students should notify instructors of planned absences for religious observances by the end of the second week of classes. Contact the coordinator: <u>Lclare+chem100@sdsu.edu</u>

Syllabus is Subject to Change: This syllabus and schedule are subject to change in the event of extenuating circumstances. If you are absent from class, it is your responsibility to check on announcements made while you were absent.

Lab: 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 <u>name</u> of your laboratory teaching assistant (TA) and your <u>lab section number</u> for identification of homework, experiments, and exams.

All persons present in a chemistry laboratory must wear approved eye protection, flame resistant (blue) lab coat or apron, pants or skirts that end below mid-calf, and closed-toe shoes. Long hair must be confined securely. The eye protection must be worn by everybody whenever anyone in the room is working with chemicals. Anyone not in compliance will be asked to leave and will not be allowed to return until properly attired.

The lab work for Chem. 100 must be performed in CSL 522, 524, 525 or 528 during the lab hours for which the student is registered. Because of logistical constraints, you will not be allowed to make up missed lab experiments; however, the lowest lab report score **will be dropped** when determining your course grade. Use this free pass wisely.

All students must **complete the safety survey** before the start of lab 2 in the second week of the semester. You must first watch the safety video, which is available in Canvas, then complete the survey. If you fail to complete the safety survey, you will not be allowed to begin lab 2.

Remember, whenever any chemicals are in use anywhere in the room, everyone must wear appropriate clothing, goggles, and closed toe and heel shoes. If you have forgotten your safety glasses then you must either borrow a pair from a friend, or buy new ones at the bookstore, or go home andtake a zero on that lab. Any week in which an "experiment" is scheduled in lab indicates you must wear long pants/skirts, goggles, and shoes in that lab day. Store a pair of shoes in your locker if youthink you will forget to wear proper shoes. Lab reports are due at the end of the lab period. 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 the data pages and questions in the lab manual. Where computations are involved, numerical set-ups must be shown. The final answer must include units, if any, and the correct number of significant figures. Reports must be legible for full credit.

If you are in a **Monday lab**, you will miss Lab 3 in week 3 due to Labor Day Holiday. You will make up this lab later in the semester on Monday, Nov 22. If you are in a **Thursday lab**, you will not meet in Week 12 due to Veterans Day Holiday. To keep Thursday lab students on schedule we will allow you to attend any other lab meeting, during week 12 or you may complete the worksheet on your own. The worksheet will be due at the start of your next lab meeting.

There are 10 participation points available. these will be assigned at the discretion of lab TA at the end of the semester. Points are given based upon readiness of student for lab work, adequate cleanliness of lab space, respect for others in lab, and checking out as assigned. Arriving on time and being prepared for every laboratory is **ABSOLUTELY** expected.

Online Homework: A link for Cengage OWLv2 Homework will be available in Canvas

Cengage (OWLv2) Homework:

Before you begin there will be several Introduction 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 Assessments (OWLv2) are hard deadlines and extensions will not be granted. 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.

Chapter Problem Sets (OWLv2) have the same hard deadlines and no extensions will be granted There will be a chapter problem set from each of the 10 chapters covered in the text. 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.

- Full points can be obtained for each chapter's problem set by <u>scoring above 85% on the problems</u> for the chapter. Each chapter will have different point total but if you score 85% and above you will receive the **max of 10 points**. If you score less than 85% your score will be normalized. For example, if you score 74%, you will receive 8.7 points.
- o A score of 74% = $(74\% \text{ x } \frac{10 \text{ points}}{85\%})$ = 8.7 points
- It is in your best interest to complete all problem sets to ensure that you are fully prepared for the exams.
- The adjusted points will be calculated throughout the semester. Please watch your email for important announcements regarding the uploads. Errors occur due to incorrect RedID number, multiple OWLv2 accounts and/or your work is in the wrong section and is not recognized for a score.

OWL Homework Due dates: Chapter Assessments and Chapter Problem sets will be due at 11:59 pm the Thursday before a Friday exam. Be advised that OWLv2 time management operates on 5 min intervals and thus does not recognizing 11:59 pm, and so the deadline is set for 12:00 am Friday. This means that you get one more minute of time to submit your work. We will post an announcement reminding you of the deadlines; the deadlines will be in the lecture slides, on the Canvas Calendar, as well as on the OWLv2 program.

<u>Additional Homework(Not Graded)</u> -"Exercises" sections are located in the back of each chapter of your textbook. *Additional practice problems*-One of the most common requests by students is more practiceproblems. The following problems from the "Exercises" section at the back of each chapter in yourtextbook 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, andthen bring your questions with you to office hours. Answer keys for practice problems from eachchapter will be posted to the Combined sections Blackboard site.

<u>Chapter</u> <u>Problems</u>

- 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, 73, 74
- 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

Worksheets will also be posted on Canvas and while their completion is ratgraded, they contain

problems similar to what you will see on exams so we <u>highly recommend</u> completion of all worksheets.

10 steps to Chem 100 success

- 1. Read the relevant chapter in the book **BEFORE** coming to 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. Attend every lecture, take notes, and try to solve problems as they are presented. This means you must bring a calculator to every class. Do not write down the material and think "I will do it at home", 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 stay in your mouth.)
- 3. Read the book again.
- 4. As soon as lecture is over, try relevant HW problems. Get help as needed. Well before exam, 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 exams- pretend they are real, as you have a short amount of time to finish (just 50 minutes). No notes, no help. Do the practice exams 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 exam questions from multiple sources.
- 10. After each exam or quiz, look at the answer key (available from TA's) and figure out why you missed each problem. This will help you learn what to focus on for next exam.

(Schedule on next page)

Fall '21 Schedule

Week	Date	Suggested Lecture Viewing Schedule	Lab Schedule	Homework and Chapter Assessments
1	August 23, 2021	Introduction/ Chapter 1	Lab 1 - Significant Figures, Scientific	Start: Owl Chapter Assessment and Chapter Problem set for CH 1-3 Due: Thursday Sept 30 at 11:59 pm
	August 25, 2021	Chapter 1	Notation, & Algebra Worksheet (Due at the beginning of your next lab session)	
	August 27, 2021	Chapter 1		
	August 30, 2021	Chapter 1	Must Complete Safety Survey before Lab Check-in.	
2	September 1, 2021	Chapter 2	Lab Check-in. Lab 2 - Density Lab	
	September 3, 2021	Chapter 2 Last day to add/drop classes. Ends at 7:59 pm	(Results & Calcs, Questions due at the end of lab session)	
3	September6, 2021	Holiday Labor Day	No lab meeting on Monday Lab 3 -Periodic Table	
	September 8, 2021	Chapter 2	Worksheet for Tue – Fri labs	
	September 10, 2021	Chapter 2	Wksht due at end of session	
4	September 13, 2021	Chapter 3	Lab 4 - Chemical	
	September15, 2021	Chapter 3	Nomenclature Worksheet due at the end of session	
	September 17, 2021	Chapter 3	end of session	
5	September 20, 2021	Chapter 3	Lab 5- Valence-Shell Electron-Pair	
	September 22, 2021	Chapter 3	Repulsion Theory (VSEPR) Worksheet due at the end of lab	
	September 24, 2021	Chapter 6	session	
6	September 27, 2021	Chapter 6	Lab 6 -Separation of	Due: OWL Chapter Assessments and Chapter Problem sets for Ch 1-3 Due Thursday, Sept 30 at 11:59 pm
	September 29, 2021	Review for Exam 1	an Unknown Mixture Results & Q's due at end of lab session	
	October 1, 2021	Exam 1 (Chapters 1-3)	end on lab session	

7	October 4, 2021	Chapter 6	Lab 7- Determining the Specific Heat Capacity	Start: OWL Chapter Assessment and	
	October 6, 2021	Chapter 6	of a Metal by Calorimetry Results&Calcs, Q's &	Chapter Problem sets for Ch. 6,4 & 5 Due: Thursday, Oct 28 at 11:59 pm	
	October 8, 2021	Chapter 4	graph due at the end of lab session		
8	October 11, 2021	Chapter 4	Lab 10 -Determining the Empirical Formula		
	October 13, 2021	Chapter 4	of Magnesium Oxide Results&Calcs, Q's due at the end of lab		
	October 15, 2021	Chapter 4	session		
	October 18, 2021	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		
9	October 20, 2021	Chapter 5			
	October 22, 2021	Chapter 5			
10	October 25, 2021	Chapter 7	Lab 9-Identification of an Unknown Metal Carbonate Results and Q's due at end of lab session	DUE: OWL Chapter Assessments and Chapter Problem sets for Ch 6,4 & 5 Due Thursday, Oct. 28 at 11:59 pm	
	October 27, 2021	Review for Exam 2			
	October 29, 2021	Exam 2 (Chapters 4-6)			
	November 1, 2021	Chapter 7	Lab 12- Acid-Base Titrations Part 1 Only First page – Results and Calcs for base stnd & pictures due at the end of lab session	Start: OWL Chapter Assessment and Chapter Problem sets for Ch 7-9 DUE: Thursday Dec 2 at 11:59 pm	
11	November 3, 2021	Chapter 7			
	November 5, 2021	Chapter 7			
12	November 8, 2021	Chapter 8	Lab 11- Chemical Reactions Worksheet (Thursday lab students will be allowed to go to any other lab that fits		
	November 10, 2021	Chapter 8			
	November 12, 2021	Chapter 8	their schedule) Worksheet due at end of lab session		
13	November 15, 2021	Chapter 9			
	November 17, 2021	Chapter 9	Lab 12 -Acid-Base Titrations Part 2		
	November 19, 2021	Chapter 9			

	November 22, 2021	Chapter 9	Thanksgiving, No Labs	
14	November 24, 2021	(No Class) Thanksgiving	for Tue -Fri Labs (Monday labs meet	
	November26, 2021	(No Class) Thanksgiving	and do lab 3)	
	November29, 2021	Chapter 9		DUE: OWL Chapter
15	December 1, 2021	Review for Exam 3	Lab Checkout	Assessments and Chapter Problem sets for Ch 7-9 due Thursday, Dec 2 at 11:59 pm
	December 3, 2021	Exam 3 (Chapters 7-9)		
16	Dec 6, 2021	Chapter 10	Loot Work of Classes	Ch 10 HW Due: 7:00 pm Dec 10
	December 8, 2021	Chapter 10	Last Week of Classes	

Final is Friday, Dec 10, 1:00 – 3:00 p.m. online using OWL Final is comprehensive and will include lecture on Chapter 10

Finding Help on Campus:

Need help finding help -- an advisor, tutoring, counselling, or emergency economic assistance? The <u>SDSU Student Success Help Desk</u> 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 Adivisors: 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/

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.

Help control the COVID-19 pandemic:

Addressing the COVID-19 pandemic is a shared responsibility. The California State University System mandates that students, faculty and staff receive a full COVID-19 vaccination to be on campus. Facial coverings are required when in instructional settings such as instructional classrooms and instructional labs. Do not come to campus if you do not feel well. Remain home and monitor your symptoms and seek medical attention as needed. If you

receive a positive COVID-19 test, complete the <u>COVID-19 Reporting Form</u>. Contact the lab coordinator if you will be absent from a lab session. If students need assistance purchasing facial coverings, please contact the <u>Economic Crisis Response Team</u>.

Medical Related Absence

Contact the lab coordinator in the event you miss a class or lab due to an illness, injury, or emergency. Remember one lab score is dropped but if you miss more than one lab due to an illness, you must provide medical documentation of your sickness or emergency.

If you miss a class or lab because you are quarantined because of a positive COVID-19 result, you must request a class excuse letter. Send an email to vpsafrontdesk@sdsu.edu to notify the university. Student Affairs and Campus Diversity will initiate the process for absent letters to be sent to course instructors, Assistant Deans, and the Provost. Medical documentation may be required prior to the letter being issued.

<u>Student Health Services</u> (SHS) does not provide medical excuses for short-term absences due to illness or injury. When a medical-related absence persists beyond five days, SHS will work with students to provide appropriate documentation.

When a student is hospitalized or has a serious, ongoing illness or injury, SHS will, at the student's request and with the student's consent, communicate with the student's instructors via the Vice President for Student Affairs and Campus Diversity and may communicate with the student's Assistant Dean and/or the Student Ability Success Center.

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 (sds.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 Kumeyaay.

'eyay e'haan My heart is good.