

Chemistry 10: Introductory Chemistry

Fall 2022 De Anza College

Synchronous Zoom Hours:

Lecture:	M/W	5:30 PM – 7:20 PM	Canvas/Zoom
Lab-61Z 21939	M	7:30 PM – 8:20 PM (8:20 PM – 10:20 PM Async Hours)	“
Lab-62Z 27098	W	7:30 PM – 8:20 PM (8:20 PM – 10:20 PM Async Hours)	“

Instructor: Dr. Sol Parajon Puenzo **Email:** parajonpuenzosol@fhda.edu

Course Description

An Introduction to the discipline of Chemistry, including chemical laboratory techniques and methods and a survey of important chemical principles. This course emphasizes chemistry as a subject of scientific inquiry and is designed to give the student a general appreciation for chemistry as a science.

Weekly-hours requirement for a 5 credit CHEMISTRY class

**In Addition to scheduled times on registration, students must prepare for lecture and lab, do practice and reports on their own time. The calculation of outside time is 2-3 hours per class credit to pass with a C. You will have to allocate a minimum of 10 to 15 hours per week to complete all activities and study to pass the class

Help yourself to do your best by making time to keep up with the reading and homework. If this time commitment is not possible given your situation, please consider taking this class at a later date when you do have more time available.

Pre-requisite:

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Mathematics 212 or the equivalent.

Regular Communication:

Class updates are communicated during Zoom meetings, via canvas and email. Students have access to the instructor at class time, and office hours. Also, you can contact the instructor by email.

Required Materials

1. **Textbook:** CHEM 10 Introductory Chemistry an open-source book from Libretexts.
Reading from this book will be assigned to prepare students for the upcoming lecture as well as to solidify the concepts presented in class. Lectures will not follow exactly the order of the book, but the order of chapter is posted in the tentative schedule.
2. **Simple Scientific calculator** such as a TI30XA; a Casio 260FXSLR; a Sharp EL501X or comparable.
Programmable calculators, cell phones, or other electronic devices are not allowed during exams.
3. **Laboratory Textbook:** Not required. At home activities will be implemented, Lab instructions will be on Canvas.
4. **Laboratory Supplies:** Scale that can measure 0.01g. Lab Kit: Safety goggles, lab gloves, 4 graduated test tubes w/holder, 2 pipets, 7 clear cups, funnel, baking soda, Citric acid, food coloring, measuring spoons, 15 balloons, plastic rod, plastic ball. Other household materials listed in Canvas.
5. **Software:** Chrome, Word processor, Graphing data (both can be cover with google), PDF reader and convert pictures to PDF.

Academic Integrity Policy

By enrolling in classes at De Anza College, you are agreeing to the academic integrity policy and are held to all standards. Specifics can be found at https://www.deanza.edu/policies/academic_integrity.html. Cheating will not be tolerated and will result in 0 for that quiz/exam or potentially removal from the class. Working in groups for homework is encouraged but copying is not allowed. Original work must be turned in for homework credit.

Fall 2022 Important Dates

September 26	First day of Fall quarter
October 08	Last day to add classes for fall quarter
October 09	Last day to drop classes for fall with no record of "W"
November 18	Last day to drop classes with a "W"
December 12	Final exam Monday from 6:15 PM to 8:15 PM
December 16	Last Day of Fall quarter

If you cannot make the time for the final exam, you should not enroll in this class.

Student Resources

Information about tutoring can be found at the Math Science and Technology Resource Center <https://www.deanza.edu/studentuccess/mstrc/>. Additionally, you are encouraged to email me with class questions. Academic support can be found at the Learning Resources Division <https://www.deanza.edu/learningresources/>.

Disability Service Support:

De Anza is committed to providing support for students with disabilities. Please contact me as soon as possible if you require special accommodations and I will be happy to do what I can to help. For more information, visit Disability Service Support at <https://www.deanza.edu/dsps/>.

General Information

Attendance Requirements:

- When a class is listed as Synchronous, your attendance is expected. For quarters when there are students on the waiting list, any unjustified absences during the first two weeks of class **will result in you being dropped**. Attendance at lectures is strongly advised. New material is covered daily. Practice problems are given daily. The success in this class depends heavily on attendance at lectures. Class participation is encouraged. After a year of zoom classes, most students feel more engaged when they participate with camera/audio or chat during lecture or lab meetings.
- Any graded work assigned during the meetings and not submitted may result in a zero, and no make-ups.

Lab Participation Points are awarded for:

- Be present and on time for Lab Meetings and Active participation in lab or group work.
- Attendance is not marked by a black box with your name on Zoom, but rather by your **participation and engagement** with the course activities and assignments.

Policies

- Students should arrive on time for Lab meetings: after 5 minutes, it is considered late, and more than 20 minutes late to any lab session will be counted as absent for that lab session.
- A student missing two unexcused lab sessions cannot receive a passing grade. The student may be dropped from the course or receive a non-passing grade.
- If you foresee an absence, you are advised to contact the instructor **and** arrange to be present to the other section lab meeting in the same week.
- You will be dropped if you miss 2 lab sessions (they do not have to be consecutive).

Attendance Note

- You are responsible for all the material covered in this course, and it is expected that you attend and participate in all of the lecture and laboratory sessions. *If you must be absent, then it is in your best interest to check the Canvas page as soon as possible in order to find out what work you have missed.***
- **Dropping the Class:** If you wish to drop the class after the first 2 weeks, it is your responsibility to do so. If you fail to drop the class you will be assigned a grade in keeping with your submitted work, usually an F.

Canvas:

- This course will use Canvas as its online platform. Make sure to check regularly our Canvas course as important information regarding the lectures and the labs will be posted there. Access to all course material such as lab experiments, worksheets and book will be provided through Canvas.
- Schedule: Mark due dates, midterms dates and the final exam date on your calendar. There are no “make-ups.”
- Homework and aids will be found in canvas.

Receiving a passing grade is more than a final percent:

Letter grades above F are assigned to student obtaining 55% or more on each portion of the class, 56% as average and having submitted 9 of the 10 lab reports.

Grading

Grading: This class is not graded on a curve. Grade cut offs are as follows:

A+ (98), A (92), A- (89), B+ (85), B (82), B- (79), C+ (75), C (68), D+ (64), D (60), D- (56), F (56-0)

The class is divided in 3 portions, you should obtain 55% on each of them. If your average percentage is failing (<55%) in any **ONE** or more of the following portions of the course, you will not receive a passing grade: **Lecture, lab or Evaluation portion.**

Dr. Puenzo reserves the right to change exam and quiz dates as well as modify the grade scale at any point during the quarter.

<u>Grading Scheme:</u>	<u>Percent</u>
<u>Lecture portion</u>	
*Homework & in-class activities	20
*Online Discussions	10
<u>Lab portion</u>	
*Pre-Lab Work	10
*Laboratory Work	20
<u>Evaluation portion</u>	
Midterm Exams (2)	20
Final Exam	20
Total	100%

***Note on Extension: All the activities in Lecture and lab portion, except for in-class activities, have an automatic extension of 48 h. The total points that you can collect during this extension is 52% of the original amount.** It is the student's responsibility to know when the activities are due based on the provided class schedule.

Exams:

The instructor reserves the right to require alternative and/or additional forms and/or locations of assessments. Including oral examination.

Webcam and open mic are mandatory for lecture quizzes/midterms/and Final. The instructor reserves the right to disregard a grade of student taking test without a webcam or open mic.

- o **Extra Credit:** Extra credit assignments are offering in class, but not on an individual basis. It is unfair to allow some students to improve their grade while not allowing others that same opportunity. Some extra credit problems may appear at the end of exams and extra activities.

Laboratory

The laboratory is a very important part of this course; passing the lab is a requirement for passing the course. You must attend all laboratory sessions and lab lecture discussions. You will be dropped if you miss 2 lab sessions (they do not have to be consecutive).

*Lecture (30%)	Homework (20%)	Homework will consist of problems around each chapter. Homework will be graded based on completeness and accuracy. Working on homework will benefit you for the exams. Copying another student's homework problems is counterproductive. Plagiarism of homework assignments will result in a score of Zero being assigned to all involved students. Feel free to work in groups but be sure to understand the work and not just copy answers. <i>Note:</i> Homework problems could be an indicator of the types of problems that will be found on quizzes but not necessary on exams. In fact, you may encounter problems on exams that have not been directly addressed either in class or in the suggested problems. I believe it is important to not simply regurgitate material, but to extend the skills you have mastered – in a reasonable way – to the unfamiliar, as you will undoubtedly encounter such challenges in your future studies or careers. Problem sets are published in Canvas/Adapt. Your lowest homework assignment and in-class activity will be dropped from your grade at the end of the quarter.
	Discussions on Canvas (10%)	Active participation in discussion, will require for you to participate at least 3 times per discussion. First presenting your answer to the topic due on Wednesdays and 2 more meaningful interactions with your classmates due on Sunday. These are NOT free points and must be earned but if you keep up with them, they will help you to increase your grade. Your lowest discussion assignment will be dropped from your grade at the end of the quarter.
*Lab (30%) you must complete <u>9</u> of the 10 lab experiments and submit the reports in order to pass the class.	Pre-Lab (10%)	The procedure for each experiment will be posted on the class Canvas page. You will be expected to be prepared for Lab activities before the meeting. Pre-lab assignments should be completed in prior to your arrival to class and turned in on Canvas. Any changes to the procedure will be announced in Canvas. Your lowest pre-lab will be dropped from your grade at the end of the quarter.
	Laboratory Participation/ Assig/Reports (20%):	Lab activities in this course are at-home experiments, with reports and Discussion submissions. Lab activities are designed to be completed during the lab time you signed on registration. Laboratory reports are due on Fridays. Please see the Lab Report guide for tips on this as well. <i>For some experiments you may be collecting and sharing data with a partner, however you must do your own calculations and formulate your own conclusions for each experiment.</i> If students are found to have copied from one another, points will be deducted from the grade or a grade of zero will be given for ALL students involved! Your lowest lab report will be dropped from your grade at the end of the quarter.
Evaluations (40%)	Midterm Exams (20%)	There will be 2 midterm exams. Exams will be a combination of any of the following: multiple choice, short sentences, and vocabulary questions. Show your work will be required for any math question. Early and late exams are not administered. Missing an exam will result in a zero for that exam without proof of an excused absence (doctor's note, police report, etc...) please ensure to mark your calendar with the exam days and times.
	Final Exam (20%)	The Final Exam is cumulative and may have the same format as the chapter exams or be an oral exam. The exam will be given Monday, December 13 from 6:15 PM – 8:15 AM. If you cannot make this time, you should not enroll in this class.

Class/Zoom Policies:

- **Lecture Attendance:** Attendance is a critical component of the learning process, and the lecture will cover material that may not appear in your text and help clarify the material that is. Learning Chemistry effectively depends on building up from a base of knowledge. If you do not set a firm foundation, you will not be able to build your understanding of the field effectively
- **Class Behavior:** Be ready to start class at the scheduled time. Please show up on time and plan on staying the entire session as late arrivals and early departures distract everyone. I would always prefer you show up a little late as opposed to skipping the class entirely.
- **Please silence your cell phone during our zoom meetings.** You may **NOT** take calls during either, except for emergencies or please silence your zoom if you need.
- **Set yourself for success: Multitasking during class means part of your brain is not engage and you may not entirely understand instructions.** Being confused is the most common feeling on online classes for student not able to commit with the class 100%. Adding to this, I know that everyone has different house situations; and not everyone has the chance to be 100% while online. If being 100% is an option for you, realize how lucky you are and honor it.
- **Recording:** Recording of any type (video/audio) is permitted only for specific DSS accommodation, in which case you should discuss it with me at the beginning of the semester. If you want to take a picture of something I have written on the blackboard you must get my permission first.
- **Questions/Help:** I am available to answer questions during office hours, by Canvas Q&A and Inbox, or by appointment. Please feel free to contact me with any problems or concerns that you have. Also remember that your fellow students are great resource.

Student Learning Outcome(s):

- *Develop problem solving techniques by applying the \Scientific Method\" to chemical data."
- *Analyze and solve chemical questions utilizing information presented in the periodic table of the elements.
- *Evaluate current scientific theories and observations utilizing a scientific mindset and an understanding of matter and the changes it undergoes.

Office Hours:

Zoom,Email	n/a	T,TH	05:05 PM	06:30 PM
Zoom,Email	n/a	T,TH	08:30 PM	08:55 PM