

**Course Grading De Anza College
Chemistry Department
Winter 2024**

COURSE TITLE

Chemistry 10 Sec 23 & 24 General Chemistry

Class 01/08/23 to 03/29/23

Meeting times: Lecture – TTh 2:30 PM - 4:20 PM SC1102

Laboratory – Sec 23 T 11:30 AM – 02:20 PM SC2208

Sec 24 Th 11:30 AM – 02:20 PM SC2208

INSTRUCTOR

John Cihonski Contact: School e-mail: cihonskijohn@fhda.edu

Zoom code (if needed): <https://fhda-edu.zoom.us/j/9071890886>

OFFICE HOURS






Office Hours – TTh 10:30 – 11:30 AM in Chem Offices or just catch me

Course Description: An introduction to the discipline of chemistry, including chemical laboratory techniques, methods and a survey of important chemical principles. The course emphasizes chemistry as a subject of scientific inquiry and is designed to give the student a general appreciation for chemistry as a science. We will be examining some of the central themes of chemistry as well as how understanding chemistry can impact our daily lives. **This course is not a prerequisite for General Chemistry, nor does it serve as adequate preparation. Students hoping to enroll in Chem 1A should take Chem 25 or Chem 30A in preparation.**

REQUIRED MATERIALS

Syllabus for Chem 10 pdf

Text Options (Instructor provided via memory stick):

-  1 Complete Study Guide to Chemistry - Kernion & Mascetta 2021
-  2 Chemistry - Mascetta & Kernion (2016) Barron's SAT Subject Test
-  3 Chemistry for Changing Times, 14e - Hill, Kolb, McCreary 2016
-  4 Chemistry for Changing Times Libratexts (e-PDF ed for Chem 10)
-  5 Chemistry Openstacks Rice text Chem 1 text

Lab Experiments – a PDF file containing the experimental procedures will be provided on the text book memory stick

Test Support Information Packet

+ a *Basic Scientific Calculator*

Attendance - Attendance is required for **all** laboratory sessions and highly encouraged for lectures. If you miss a lab or exam, you must have a valid reason and verifiable written documentation to support your absence (e.g. letter from doctor including address and phone number).

Lecture & Exams – Lecture is recommended but optional. There will be two regular exams worth 100 points each and a comprehensive final exam worth 200 points. At the discretion of the instructor, a makeup exam may be allowed for an urgent medical or legal situation which prevents a student from attending class.

Homework – Homework is also optional. However, it is important for your learning and it will help if you are on the border of a grade. “Homework” constitutes the problems related to each lesson that address the material covered in the lecture slides.

Laboratory - All laboratories are required (NOT Optional – see Attendance). *Final lab reports are due at the beginning of the following lab.* If a lab report is late it will be penalized twenty percent per day. For all laboratory experiments the final report will consist of three parts:

- An *Advance Study Assignment* that must be completed and initialed by the instructor prior to the beginning of the lab period. *No prelab \equiv no lab.* The *Advanced Study Assignment* consisting of a one page hand written (cursive) overview of the experiment consisting of 1) a goal statement clearly stating the purpose of the experiment and how you will accomplish it, 2) a list of any special equipment and chemicals required, 3) acknowledgement of any special safety related issues and 4) the identity of your lab partner (No more than two /team).
- *Laboratory Data & Calculations* pages cover the data collected and the calculations required for the experiment. The data must be also must be initialed before leaving the lab but the calculations can be completed outside the lab.
- A cursive *Results and Conclusions* page that outlines your key results and their meaning (conclusions) that someone who has not taken Chem 10 can read and learn from.
- The *final report* will contain all three sections. An incomplete report will receive a zero. The basis for each Lab report grade will be comprised of 1/4 (5 pts) for the Advanced Study Assignment, 1/4 (5 pts) for the lab data collection and calculations and 1/2 (10 pts) for your conclusions section for a total of 20 pts/lab report.

Minimum Course Score Grade (%)	Grade	Course Score formula	
90	A	$(2E + F + L)/560 = \text{Grade}$	
80	B		Total
65	C	Exams (E) 2 x 100 pts/exam	Points
55	D	F = Final Exam	200
		L = Laboratory Reports 8 x 20pts	160
Total Possible Points			560

Chemistry 10: Lecture TTh 2:30 – 4:20 PM, SC1102

Topic

1 Basic, Definitions, Measurement & Scientific Method

2 Atoms, Atomic Structure and Periodic Table

4 Chemical Bonding

5 Molecular Electronic & Geometric Structure

6 Nomenclature

Exam 1

7 Molecular Stoichiometry

8 Chemical Reactions & Stoichiometry

9 Solutions & Solution Stoichiometry

10 Gases & Gas Stoichiometry

Exam 2

11 Acids & Bases

12 Oxidation-Reduction & Electrochemistry (Batteries)

13 Organic Chemistry

14 Polymers

Comprehensive Final Exam March 26th

Chemistry 10: Laboratory – Sec 23 T 11:30 AM – 02:20 PM SC2208
Sec 24 Th 11:30 AM – 02:20 PM SC2208

Week	Week of:	Laboratory
1	Jan 07	Check-In
2	Jan 14	Exp 1 Taking measurements
3	Jan 21	Exp2 Percent water in popcorn
4	Jan 28	Exp 3 Electron dot structures
5	Feb 04	Exp 4 Molecular shapes
6	Feb 11	Exp 5 Solutions
7	Feb 18	Exp6 Upset stomach
8	Feb 25	Exp 7 How much fat?
9	Mar 03	Exp 8 Organic Molecules
10	Mar 10	
11	Mar 17	Check-Out

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:

T,TH	09:00 AM	11:30 AM	In-Person,By Appointment	Chem offices area
T,TH	09:00 AM	11:30 AM	In-Person,By Appointment	Chem offices area