CHEM 10: Introductory Chemistry
Winter 2025 Syllabus

Instructor: Laura Showalter, M.S. (she/her)

Email: showalterlaura@fhda.edu

Office hours: Th after class: 7:30 – 9:30 pm
Office Hours Zoom Link
Meeting ID: 890 0549 1425
Passcode: 114719

Section 37922:

Section	Time	Location
Lecture	T/Th 5:30 – 7:20 pm	Lecture Zoom Link Meeting ID: 822 9456 4589 Passcode: 629713
Lab	T 7:30 – 10:20 pm	Lab Zoom Link Meeting ID: 869 5915 7572 Passcode: 895197

Necessary Materials:

- Textbook: Introductory Chemistry (An Atoms First Approach), 2nd Edition, 2017
  By Julia Burdge & Michelle Drissen
  ISBN10 ● 1260148912
  ISBN13 ● 9781260148916
- Computer with internet access
- Scientific calculator—Make sure you can do scientific notation (EXP, EE or x 10c button, log, and ln). Casio fx-260solar is a very good and cheap one.

Important Registrar Deadlines:

- **Course Add:** Sunday, January 19th (add code required)
- **Course Drop (without a 'W'):** Sunday, January 19th
- **Course Drop (with a 'W'):** Friday, February 28th

I. Course Description

This is an introduction to the discipline of chemistry, including chemical laboratory techniques and 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.

Student learning outcomes:

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

II. Formats and Procedures

Exams. All exams are anticipated to be during normal class time.

Exam 1: Tuesday, February 4th

Exam 2: Tuesday, March 4th

Final Exam: Tuesday, March 25th

Homework. The homework assignments will be posted on Canvas. They are due on the date specified, at the beginning of that class period. Homework can be turned in up to one day late for a 25% penalty. After that, there will be a 50% penalty.

Quizzes. There will be a quiz given at the beginning of lecture on days we start a new chapter, pertaining to the main topics of the assigned reading. It is important for students to come to class on time, so they don't miss the quizzes. It is not possible to make up a quiz. However, 2 quizzes out of the 9 quizzes in the semester will be dropped.

Labs. Labs will be held every Tuesday, except for exam days. After you finish a laboratory experiment, you must complete the lab report and turn it in by the beginning of the following Tuesday lab period. Labs can be turned in up to one day late for a 25% penalty. After that, there will be a 50% penalty.

Project. The project will be a written report about a scientist chosen from a list that will be provided. The report will be due on Tuesday, March 18th at the beginning of class.

III. Course Requirements and Grading

Grade Components:

Component	Points	% of Grade
Homework (5)	100	10
In-Class Quizzes (9)	90	9
Labs	180	18
Project	130	13
Exam 1	150	15
Exam 2	150	15
Final Exam	200	20
TOTAL	**1000**	**100**

You are guaranteed the following grades:

Grade Percentage	Letter Grade
90 – 100%	A
80 – 89%	B
70 – 79%	C
60 – 69%	D
<60%	F

Regrade Policy. If a student believes an error has been made in the grading of an assignment, they must email the instructor a written explanation of the perceived error within one week of it being returned. The physical work must be given back to the instructor in that timeframe as well. Never alter work that has been handed back; that will cause it to be denied for a regrade. Keep in mind that a regrade could potentially decrease the score of the assignment.

IV. Academic Honesty

- Cheating will result in a 0 grade for the assigned work in question and a warning. Further cheating will subject you to increasing disciplinary measures, including referral to the Vice President of Student Services for disciplinary action.
- Good rules of thumb:
    - Never look at others' answers during exams or quizzes
    - Do not try to browse the internet or send text messages during quizzes or exams to gain outside assistance
    - Do not look directly at other students' work and don't let others look directly at your work. This will cause the tendency to copy. You cannot control what others do with your work. As instructors, we cannot tell who copied who easily, so both of you would get zeros (it's not worth it!)

- It is fine to help classmates on homework, but verbally discuss problems. This ensures you won't be copied. This will help your classmate understand and then they can put the answer in their own words

V. Accommodations for Students with Disabilities

The mission of Disability Support Programs and Services (DSPS) is to ensure access to the college's curriculum, facilities, and programs, and to promote student success in realizing individual educational and vocational goals. DSPS includes on- and off-campus programs and services offering students with disabilities a comprehensive array of accommodations, educational assistance classes and support services. Find out more about their services by going to Disability Support Programs and Services (DSPS). You can sign up to speak with a counselor online or request assistance by email (dss@deanza.edu) or phone [(408) 864-8838]. Please contact them as soon as possible in the semester to quickly accommodate any needs.

VI. Flexibility Clause

There may be a need to make changes to the syllabus over the course of the semester. The syllabus is subject to change if unforeseen circumstances come up. Students will be given as much notice as possible if any changes need to be made.

Tentative Lecture Schedule:

Date	Topic	Chapter(s)
01/07	"Orientation" CH-4: How Chemists Use Numbers CH-1: Atoms and Elements	 4 1
01/09	CH-1: Atoms and Elements	1
01/14	CH-2: Electrons and the Periodic Table	2
01/16	CH-2: Electrons and the Periodic Table	2
01/21	CH-3: Compounds and Chemical Bonds	3
01/23	CH-3: Compounds and Chemical Bonds	3
01/28	CH-5: The Mole and Chemical Formulas	5
01/30	Review for Exam 1 (CH-1, 2, 3, 4, and 5)	
02/04	**EXAM 1: CH-1, 2, 3, 4, and 5**	
02/06	Go Over Exam 1 CH-6: Molecular Shape	 6
02/11	CH-6: Molecular Shape	6
02/13	CH-7: Solids, Liquids and Phase Changes	7
02/18	CH-8: Gases	8
02/20	CH-9: Physical Properties of Solutions	9
02/25	CH-10: Chemical Reactions and Chemical Equations	10

02/27	Review for Exam 2 (CH-6, 7, 8, 9, and 10)	
03/04	**EXAM 2: CH-6, 7, 8, 9, and 10**	
03/06	Go Over Exam 2 CH-11: Using Balanced Chemical Equations	11
03/11	CH-11: Using Balanced Chemical Equations	11
03/13	CH-12: Acids and Bases	12
03/18	**PROJECT DUE** Review Final Exam (CH-1 to CH-12)	
03/20	Review Final Exam (CH-1 to CH-12)	
03/25	**FINAL EXAM: Cumulative**	

Keep in mind that later chapters are generally dependent on earlier chapters, so the later exams will require knowledge from chapters tested in earlier exams, but won't be directly testing those topics.

VII. Information and Campus Policies

Name and Pronoun

If you'd like to be known by a name different from the name on the roll sheet or if you have a personal pronoun, please contact me, and I will make every effort to call you by the name and pronoun you use. You can identify your pronoun in Canvas as well. Here are directions: How do I select personal pronouns in my user account as a student? If you'd like to learn more about personal pronouns, go to mypronouns.org.

Nondiscrimination Statement

The college, the district and their representatives shall provide access to services, classes and programs without regard to national origin, immigration status, religion, age, gender, gender identity, gender expression, race or ethnicity, color, medical condition, genetic information, ancestry, sexual orientation, marital status, physical or mental disability, pregnancy, or military and veteran status, or because someone is perceived to have one or more of the foregoing characteristics, or based on association with a person or group with one or more of these actual or perceived characteristics.

Student Help and Support

De Anza College is here to support you with many Student Services.

Academic Counseling

> No matter what you're studying at De Anza, it's easy to find counselors and academic advisers who understand your situation and can help you succeed. Our counselors and advisers are available to assist you and to answer your questions on a variety of topics, including graduation and degree requirements, educational plans, academic progress and probation – and more. You can speak with a counselor or academic adviser in person or by phone, email or Zoom video. Connect with a counselor by going to Our Counselors.

Textbooks and Technology

The college bookstore has textbooks for rent or buy. The Library now has Wi-Fi hot spots available for checkout at the Circulation Desk. Additionally, the library has laptop computers, Chromebooks, iPads and calculators available to checkout. You can apply for a free refurbished computer here.

Health Services

Student Health Services offers in-person services, as well as limited online services through their Virtual Clinic. Additionally, you can speak with a mental health professional – online, any time, for free! TimelyCare is a new service that provides free mental health support and other resources for De Anza students. Learn how to sign up for this free service here.

Learning Support

The Student Success Center is available in person or online – for academic support services, tutoring and workshops! In-person and online peer tutoring are available in all areas Monday through Thursday, beginning the second week of the quarter.

Student Needs

Are you struggling to secure daily essentials like food or housing? You're not alone. Resources for basic needs are available at De Anza College.

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:

TH	07:30 PM	09:30 PM	Zoom,Email,Canvas