

# CHEM 10: Introductory Chemistry

(Course Numbers: 32222 and 37725; Sections: 23 and 24)

Winter 2026

## Course Description

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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.

At De Anza College, Chem10 is our general education / liberal arts chemistry class. This class fulfills the general education requirement and is designed to give students an appreciation for chemistry as a science.

Note that this class is **not** equivalent to Chem 25 or Chem 30A, and it does **not** fulfill the prerequisite to take Chem 1A. Please confirm *with your transfer institution* that the credits for this class fulfill your educational and professional needs.

## Class Meeting Times

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**Lecture:** Tuesdays and Thursdays from 2:30 – 4:20 am in Room SC1102

**Lab:** Section 23 (Course number: 32222) Tuesdays from 11:30 am–2:20 pm in Room SC2208

Section 24 (Course number: 37725) Thursdays from 11:30 am–2:20 pm in Room SC2208

## Instructor Contact Information

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Gorkem Ermut

Email: [ermutgorkem@fhda.edu](mailto:ermutgorkem@fhda.edu)

I prefer to be contacted **via CANVAS**. Sometimes student emails can get lost in Outlook, but I check both regularly.

Office Hours: Tuesdays and Thursdays, 10:20 AM–11:20 AM in SC1102, Second Floor.

## Required Course Materials

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- **Textbook:** The primary textbook for this class is *Chemistry for Changing Times* by Hill and McCreary. This textbook is available as an eBook rental from Pearson, or you may use the roughly equivalent free version on [LibreTexts](#).
- **Lab Manual:** The Laboratory Manual for each experiment will be posted in CANVAS
- **Access to CANVAS:** CANVAS is the platform I will use to instruct the course. Students will use Canvas to access all course material (**including the lab manual**).
- **Scientific Calculator** (Must have log and exponential functions. Graphing is not necessary. You may not use your phone as a calculator for any quizzes, exercises, or exams. Recommended model TI-30XIIs)
- **Genius Scan:** Some handwritten assignments must be scanned as a PDF and uploaded to Canvas. Recommended apps include Genius Scan or CamScanner. Do not use Adobe scanning apps, as the files are often too large to display properly on Canvas.
- **ADAPT for Class Activities (No Access Codes Required):** ADAPT will be used for selected in-class activities. Students are automatically registered through their Canvas accounts; ADAPT accounts are created, and enrollment occurs automatically. ADAPT assignments must be accessed only through Canvas and cannot be accessed directly from the ADAPT website.

## Course Outline of Record and Course Objectives

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### Course Outline of Record

Online at: <https://www.deanza.edu/catalog/courses/outline.html?cid=chemd010>

Please save a copy of the course outline of record. You may find it useful when you transfer.

### Course Objectives

1. Examine the historical development of concepts concerned with the fundamental building blocks of matter— atoms and molecules— and their concomitant effect on our understanding of molecular structure.
2. Assess the importance of the mole concept in stoichiometric calculations.
3. Explore the relationship between the molecular structures of compounds and their effect on the chemical properties of compounds.
4. Explore the contributions of men and women from a variety of cultures and ethnic backgrounds to the field of chemistry.
5. Evaluate ethical issues and environmental effects, from local to global, that have arisen from the extraction, use, and disposal of chemicals.

### Student Learning Objectives

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

## Prerequisites

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There are no formal prerequisites for this class; however, the department recommends that students taking this class be proficient in conversational English, and it will be helpful to have some background in math.

Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent

## Information on the format of the Class

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- Both the lecture and lab portions of this course are **in person**. A new lecture module will open every Monday on Canvas and will include the reading materials for that week, lecture slides, and homework assignments.
- Participation during the lecture is critical. Lectures will include in-class exercises, and work completed during these activities will contribute **6% of your total course grade**.
- The lab portion of this course is also in person and meets weekly for **3 hours** in Room **SC2208**. Students are expected to attend every scheduled lab session.
- **Time Requirement:** This course includes approximately **4 hours of lecture** and **3 hours of lab** per week. To earn a grade of “C” or better, you should plan to spend **8–12 hours per week** on studying, reading, and preparation outside of class.
- Canvas homework assignments are subject to a 1% point deduction for every late day (No penalties for the first two weeks of the quarter)
- **The due dates for quizzes, homework, and pre-labs are firm. No exceptions will be made.**

## Attendance Policy

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- Punctual attendance is expected at every class meeting. To be counted as present and receive credit for that day’s in-class activities, you must complete the assigned activities. Full credit will not be given if the activities are not completed, even if you are physically present in class.
- If you know you will be absent or late, please notify me via Canvas Inbox or email. Communicating about attendance demonstrates responsibility and respect for both yourself and your classmates. Please note that notifying an absence or delay does not automatically excuse you from in-class activities or associated credit for that day.
- Class meetings will not be recorded. If you miss a class, it is your responsibility to connect with a classmate to obtain notes and any information you missed.

## Important Dates

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- January 5<sup>th</sup>: First Day of Winter Quarter
- January 18<sup>th</sup>: Last Day for Adds
- January 18<sup>th</sup>: Last day to drop for a full refund, without “W” (Note that dropping the course in advance of either the drop or withdrawal deadline is your responsibility, and you will not simply be dropped because you stopped attending class at some point along the way.)
- February 27<sup>th</sup>: Last day to drop with a "W" Drops after this date will result in an “F”
- March 26<sup>th</sup>: Final Exam from 1:45–3:45 PM in Room SC1102.

# Grading Scale Breakdown

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Grading scale showing letter grades and their corresponding percentage ranges:

LETTER GRADE EARNED	PERCENTAGE RANGE
A	90-100%
B	80-89%
C	70-79%
D	60-69%
F	Below 60%

Note: These are estimated brackets and might shift down (to your benefit) in the final calculation, depending upon the difficulty of exams. They will not shift up, so you may be guaranteed that if you are in the range listed, your letter grade will be at least that listed above.

## Grading Policies

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Breakdown of course grading components for lecture (80%) and lab (20%) with associated weight percentages.

- **Lecture (76 %)**
  - Active Learning Assignments in Class: 6%
  - Discussions: 5%
  - Online Homework: 10%
  - Quizzes: 5%
  - Midterm Exams 30%
  - Final Exam: 20%:  
No advance or make-up exams will be given.
- **Lab (24%):**
  - Pre-Lab assignments (8%)
  - Lab assignments (10%)
  - Lab Exam (6%)

## Description of Assignments

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### Lecture (76%)

- **Active Learning Assignments in Class (6%):** Students will be given active learning assignments during the lecture that encourage the development of collaboration and cognitive and problem-solving skills (polls, teamwork, etc.). Many of the questions from these assignments could appear on an exam. The four lowest active-learning assignment grade drops, and **no make-up assignments** are available for any in-class assignments.
- **Online Homework Assignments (10%):** Online homework is submitted through Canvas and is due on Sundays at 11:59 pm. Homework assignments (through Canvas) are subject to a 1% point deduction for every late day (No penalties for the first two weeks).
- **Discussions (5%):** Throughout the course, you will participate in online discussions in Canvas. For each discussion, a prompt or topic will be posted. Your task is to write a thoughtful response to the prompt before the posted due date. These discussions are designed to help you engage with the material, share your ideas, and learn from your classmates' perspectives. Late or missing responses will not receive credit, so be sure to plan ahead and post on time.
- **Quizzes (5%):** Chapter quizzes will be available on Canvas from Thursday to Sunday of each week, except during weeks in which a lecture exam is scheduled (no quizzes will be given during exam weeks). Each quiz will be worth ~20 points (though the number of questions may vary), and will primarily consist of multiple-choice questions. The lowest quiz grade drops. **The due dates for quizzes are firm. No exceptions.**

- **Midterm Exams (30%):** There will be three midterm exams, and the weightage for each Midterm Exam is 10%. All three exams will be counted towards your final grade. The midterm will be available on Canvas. **The due dates for exams are firm.**
- **Final Exam (20%):** Students will have 2 hours to complete the Cumulative Final Exam. The final exam is cumulative, requiring mastery of the material covered throughout the entire course. The final exam will be in-person on March 26<sup>th</sup> at 1:45 PM, and it must be completed. **Note that the due date for the Final exam is firm. No exceptions will be made.**

### Lab (24%)

- **Pre-Lab Assignments (8%):** Online pre-lab assignments for the labs scheduled each week are submitted through **Canvas** and are due Mondays at 11:59 PM. For each experiment, you must read and understand the background information and the experimental procedure before answering online prelab questions and before the lab session. **The due dates for Pre-labs are firm; pre-labs will not be accepted past the due date. The lowest pre-lab score will be dropped from your course grade.**
- **Lab Assignments (10%):** Laboratory Assignment scores are based on the work done during the lab sessions. Students are expected to arrive on time and complete the synchronous activities.
- **Laboratory Exam (6%):** At the end of the quarter, there will be a lab exam about the information covered during the lab sessions, which will be in-person and available on Canvas. This exam will focus on your understanding of the underlying techniques and concepts we have learned during the quarter.

## Accommodated Testing

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If you need specific accommodations, such as extended-time, I am glad to work with you to arrive at an appropriate accommodation arrangement. All such requests must go through Disability Support Programs and Services (DSPS), located in the Advanced Technology Center (AT209). If you need accommodations but are not yet registered through DSPS, please make sure to contact them as soon as possible, as I am not able to provide accommodations without a written notice from that office. The DSPS website is found at [www.deanza.edu/dsps](http://www.deanza.edu/dsps)

## Academic Integrity

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Homework assignments are an opportunity to learn and practice the course material, and you should feel free to make use of resources that will help you to understand problems you are uncertain about, including your textbook, the course lecture videos or, other tutorials, or outside tutors. You should make sure, however, that you are, in fact, using these resources to help you understand how to approach the problems rather than simply entering the problem text into a search engine and copying any solutions you find. Course exams are a time to demonstrate your own independent knowledge of the course content, and your use of outside help to assist you in answering exam questions is limited to specifically approved materials. Consultation with another person in answering exam questions, whether in person or via the Internet, is considered cheating and will be handled as described below. The same is true for uploading any portion of an exam to an online homework help service (Chegg, CourseHero, etc.), whether during or after the exam period. You will always be provided with keys to course exams once they are returned to you, but posting exam questions online with permission is a violation of both De Anza academic integrity policies and copyright law. Cheating or plagiarizing in any form, including but not limited to those above, will not be tolerated. The first offense of academic dishonesty will result in a zero for the relevant exam or assignment, which may lead to failing the course. The offending student will also be reported to the Dean of Student Development, which may result in additional administrative consequences. For a fuller description of what constitutes a violation of academic integrity, see the De Anza College academic honor code at the link below: [www.deanza.edu/policies/academic\\_integrity.html](http://www.deanza.edu/policies/academic_integrity.html)

## Student Resources

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- **Student Success Center (SSC) for supplemental Tutoring:** While I work hard to be flexible in my teaching style to meet most students' learning styles, you may want to seek out supplemental tutoring. Student Success Center (SSC) provides a great service for supplemental tutoring for students. In-person peer tutoring available in all areas. Student Success Center (SSC) website can be found at:  
<https://www.deanza.edu/studentsuccess/>
- **Library:** The De Anza Library offers a wide range of resources to support your academic and career success. You can borrow books, calculators, hotspots, laptops, and tablets directly from the library. To explore available services, visit the Library website at <https://www.deanza.edu/library> If you have any questions, feel free to email the help desk at: [dalibraryhelpdesk@fhda.edu](mailto:dalibraryhelpdesk@fhda.edu)

to follow the De Anza College Code of Conduct at all times while in the lab: "horseplay", yelling, offensive language, or any behavior that could startle or frighten another student is not allowed during lab.

15. Strongly recommended: Wear nitrile gloves while performing lab work; wear a chemically resistant lab coat or lab apron; wear shoes made of leather or polymeric leather substitute. Reckless behavior will not be tolerated. If your actions endanger the health and safety of yourself or someone else, you will be asked to leave, and you will receive a zero for the day.

## Student Learning Outcome(s) Resources

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- 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

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Tuesday and Thursday      10:20 AM – 11:20 AM via Zoom (use the same Zoom link as for the lecture).

## Chem 10 Winter 2026 Lab and Lecture Tentative\* Schedule

<b>Week 1</b>	Tuesday 01/06	<b>Lecture:</b> Introductions and syllabus, Chemistry (Chapter 1) <b>Lab (Section 23, CRN 32222):</b> Check-In
	Thursday 01/08	<b>Lecture:</b> Chemistry Continued (Chapter 1) <b>Lab (Section 24, CRN 37725):</b> Check-In
<b>Week 2</b>	Tuesday 01/13	<b>Lecture:</b> Atoms (Chapter 2) <b>Lab (Section 23, CRN 32222):</b> Taking Measurements
	Thursday 01/15	<b>Lecture:</b> Atoms Continued (Chapter 2) <b>Lab (Section 24, CRN 37725):</b> Taking Measurements
<b>Week 3</b>	Tuesday 01/20	<b>Lecture:</b> Atomic Structure (Chapter 3) <b>Lab (Section 23, CRN 32222):</b> % Water In Popcorn
	Thursday 01/22	<b>Lecture:</b> Atomic Structure Continued (Chapter 3) <b>Lab (Section 24, CRN 37725):</b> % Water In Popcorn
<b>Week 4</b>	Tuesday 01/27	<b>Lecture: EXAM 1 (Chapters 1, 2, and 3)</b> <b>Lab (Section 23, CRN 32222):</b> Electron Dot Structures
	Thursday 01/29	<b>Lecture:</b> Chemical Bonds (Chapter 4) <b>Lab (Section 24, CRN 37725):</b> Electron Dot Structures
<b>Week 5</b>	Tuesday 02/03	<b>Lecture:</b> Chemical Bonds Continued (Chapter 4) <b>Lab (Section 23, CRN 32222):</b> Molecular Shapes
	Thursday 02/05	<b>Lecture:</b> Chemical Accounting (Chapter 5) <b>Lab (Section 24, CRN 37725):</b> Molecular Shapes
<b>Week 6</b>	Tuesday 02/10	<b>Lecture:</b> Chemical Accounting Continued (Chapter 5) <b>Lab (Section 23, CRN 32222):</b> Solutions
	Thursday 02/12	<b>Lecture:</b> Chemical Accounting Continued (Chapter 5) <b>Lab (Section 24, CRN 37725):</b> Solutions
<b>Week 7</b>	Tuesday 02/17	<b>Lecture: EXAM 2 (Chapters 4 and 5)</b> <b>Lab (Section 23, CRN 32222):</b> Upset Stomach
	Thursday 02/19	<b>Lecture:</b> Gases, Liquids, Solids, and Intermolecular Forces (Chapter 6) <b>Lab (Section 24, CRN 37725):</b> Upset Stomach
<b>Week 8</b>	Tuesday 02/24	<b>Lecture:</b> Gases, Liquids, Solids, and Intermolecular Forces Continued (Chapter 6) <b>Lab (Section 23, CRN 32222):</b> How Much Fat
	Thursday 02/26	<b>Lecture:</b> Acids and Bases (Chapter 7) <b>Lab (Section 24, CRN 37725):</b> How Much Fat
<b>Week 9</b>	Tuesday 03/03	<b>Lecture:</b> Acids and Bases Continued (Chapter 7) and Oxidation and Reduction (Chapter 8) <b>Lab (Section 23, CRN 32222):</b> Organic Molecules
	Thursday 03/05	<b>Lecture:</b> Oxidation and Reduction Continued (Chapter 8) <b>Lab (Section 24, CRN 37725):</b> Organic Molecules
<b>Week 10</b>	Tuesday 03/10	<b>Lecture: EXAM 3 (Chapters 6, 7, and 8)</b> <b>Lab (Section 23, CRN 32222):</b> DNA Capture
	Thursday 03/12	<b>Lecture:</b> Nuclear Chemistry (Chapter 11) <b>Lab (Section 24, CRN 37725):</b> DNA Capture
<b>Week 11</b>	Tuesday 03/17	<b>Lecture:</b> Nuclear Chemistry Continued (Chapter 11) and Energy (Chapter 15) <b>Lab (Section 23, CRN 32222):</b> Check out and Lab Exam
	Thursday 03/19	<b>Lecture:</b> Energy Continued (Chapter 15) <b>Lab (Section 24, CRN 37725):</b> Check out and Lab Exam
<b>Week 12</b>	Thursday, March 26 <sup>th</sup>	<b>Final Exam will be on Thursday, March 26<sup>th</sup>, at 1:45 PM in room SC1102</b>
	Final Exam	

\*Schedule is tentative, and dates/topics are subject to change



**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 10:20 AM - 11:20 AM

SC1102, Second Floor