

De Anza College
Chemistry 25 Course Syllabus
Fall 2022

Instructor: Nayereh Rezaei

Lecture:	TTh 9:30 - 11:20 PM	Room G6
CHEM 25-03 Lab:	T 11:30 - 2:20 PM	Room SC2208

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Prerequisites: Math 114 or equivalent

Introduction:

Chemistry 25 is a one term introduction to physical and inorganic chemistry. This course serves either for preparation for chemistry 1A or for students who wish to meet general education requirements for physical science.

Textbook & Materials:

- **Face Masks are required in all Lectures and Labs.**
- **Text:** Introduction To Chemistry, fifth edition by Bauer, Brik and Marks (McGraw-Hill)
- **Lab Manual:** Preparation for General Chemistry: Chem 25, by Applegate, Neelyand Sakuta (McGraw-Hill).
- A scientific calculator that has at least log and exponential function
- Safety Goggles, needs to meet the ANSI Z87.1 or Z87+ specification, which will generally be listed in the product description. Visorgogs or Z87.1-2010 Rates Safety Glasses

Homework:

A. Reading Assignment: The key to success in chemistry is regular study. On the average students need to study at least two hours for each hour spent in class. It is important to study regularly, preferably daily.

B. Homework Exercise: Will be assigned from your textbook every week.

Attendance:

Attendance in the Laboratory Lecture and Lab is required. Any student who has two or more unexcused lab absences may be dropped from the course. Allowances may be made for emergencies and other complications in life. However, every absence will lower your grade.

Grading:

Lecture quizzes: There will be two quizzes throughout the quarter. The dates for the quizzes will be announced in advance.

Lecture exams: There will be two midterm exams and a comprehensive final exam.

Point distribution:

Two Midterm Exams	30%	Lab reports:	15%
Two quizzes	10%	Lab quizzes	10%
Homework assignments	10%	Pre-Lab	5%
Final Exam	20%		
Total Lecture Percentage:	70%	Total Lab Percentage:	30%

Lecture Exams DATES: **Exam-1 Thursday Oct 26**
Exam-2 Thursday Nov 30
Final Exam: Tuesday Dec 13 at 9:15-11:15 AM

Lecture Quizzes DATES: TBA

A letter grade will be assigned according to the following percentage scale:

A+ ≥ 96%	A ≥ 90%	A- ≥ 88%	B+ ≥ 85%	B ≥ 80%	B- ≥ 78%
C+ ≥ 75%	C ≥ 65%	D+ ≥ 62%	D ≥ 58%	D- ≥ 55%	F ≤ 55%

Make-up Exams: Make-up exams will NOT be given. However if you receive a higher score on your final exam, then your weaker midterm weight will be reduced by 5% and the weight of your final will be increased by 5%. The midterm, quizzes and final are mandatory and cannot be missed.

Important Dates:

The last day to add a class is **Oct 8**, for a no grade is **Oct 9** and for a grade of **W** is **NOV 18**, 2022.

Class Rules and Regulations:

1. Ensure that you are qualified to attend an in-person class and have uploaded your required vaccination document.
2. Masks are required at all times during lectures and labs.
3. No students will be permitted into the class without a mask.
4. Take every other seat in class for safe social distancing.
5. access to computers is required during lectures and labs as all exams, quizzes and lab reports will be conducted via Canvas.
6. Arrive on time to minimize distractions to your instructor and fellow students
7. Talking to fellow students during lectures is disruptive. Remain quiet during lecture.
Raise your hand if you have a comment or question.
8. Turn off or turn to silent mode all cell or message, quietly leave the classroom to respond to it.
9. Repeated disruptive/rude behavior will cause dismissal from the class.

Resources:

Your Instructor: See me regularly for help, do not wait until the week or day of a test.

Other students: Help each other to learn (not copy)

Academic Dishonesty:

Any form of academic dishonesty will be ground for dismissal from the course. Foothill College has information regarding academic dishonesty in the schedule of classes. Please read it! Violations will be reported. Plagiarism on lab exercises and reports or during class examinations constitutes academic dishonesty.

LABORATORY: Chemistry 25/REZAEI

The laboratory is an integral part of the course; an F in the lab will result in an F for the final course grade.

Since chemistry 25 is an experimental course, the presence of the student in the laboratory is essential for the understanding of the materials covered. A student may be dropped if **3** or more unexcused lab absences are counted. Missed labs cannot be made up. You may miss one lab without penalty. I may allow for emergencies and other complications in life.

Required Materials For Lab:

1. **Lab Manual:** Preparation for general Chemistry: Chem 25, by Applegate, Neely, and Sakuta (McGraw-Hill)
2. Scientific Calculator that has at least log and exponential functions.
3. Safety Goggles or Visorgogs: must be purchased from Foothill bookstore.

Safety Rules:

1. Make sure you read and understand all of the safety rules.
2. **Safety goggles must be worn at all times while working in the chemistry laboratory. NO EXCEPTIONS will be made to this rule.** Any student who does not cooperate with this policy will be asked to leave the lab and will receive zero credit for the experiment. Students with prescription glasses will be required to wear safety goggles over their prescription glasses. Contact lenses should NOT be worn in the laboratory.

Lab Procedure/Policies:

1. All students are expected to arrive at the lab on time and to come to the lab prepared to carry out the experiment scheduled for that session. This means that you have studied the experiment for the day, have a basic understanding of its purpose, procedure, and the chemistry involved. Before coming to the lab you should do the assigned pre laboratory reading, read the background discussion and procedure and complete the pre laboratory exercises for the experiment.
2. We ask that all students do a conscientious and thorough job cleaning up after them, whether it is in their own work area in the lab, or shared areas such as the chemical supply table and balance room.
3. When you work with a partner or group of students, you will share the data that is collected. However, you must do your own calculations and lab reports.
4. Proper chemical waste disposal is absolutely required. Students who do not comply with direct procedures may be dropped from the course.

Lab Tests:

Lab tests will be based on the laboratory experiments and exercise; and will cover the chemistry, calculations and conclusions of the experiments. Critical thinking is required.

Lab reports are due one week after you finish the experiment. There will be a 10% deduction for late lab reports up to one week and 50% deduction for lab reports that are more than two weeks late. Pre-Lab questions should be turned in at the beginning of the lab. It is considered late if it is turned in after I finish the lab lecture.

LABORATORY CHECK-IN:

For this course each pair of students will share a drawer containing laboratory glassware and other needed items. You are responsible for its contents throughout the quarter. You will check in at the beginning of the quarter. Inspect the drawer content against the list and take note of all missing items. Record the missing items at the e and it will be replaced for you. You will check out the same way at the end of the quarter.

CHEMISTRY 25 LABORATORY CALENDAR-Fall 2022/Rezaei

WK#	Week of	Tuesday
1	Sep-26	Mandatory attendance Introduction to lab & Safety Rules/ Video Check-in
2	Oct-3	Lab 2: Measurements and Significant Figures
3	Oct-10	Lab 3: Density Lab report 2 due
4	Oct-17	Lab 4 Atomic Structures & Periodic Table Lab report 3 due
5	Oct-24	Lab 5: (dry) Ionic Compounds Lab report 4 due
6	Oct-31	Lab 6: (dry) Covalent Compounds Lab report 5 due, Lab Test #1
7	Nov-7	Lab 7: Empirical Formula Determination Lab report 6 due
8	Nov-14	Lab 8: Chemical Reactions Lab report 7 due
9	Nov-21	Lab 9: Molar Volume Lab report 8 due
10	Nov-28	Lab 10: Titration Vinegar Analysis Lab report 9 due
11	Dec-5	Lab Test # 2, and Check out of Lab Lab report 10 due
12	Dec-12	Final Exam: Tuesday Dec 13, 9:15-11:15 AM

Student Learning Outcome(s):

- *Assess the fundamental concepts of modern atomic and molecular theory.
- *Evaluate the standard classes of chemical reactions.
- *Demonstrate a fundamental understanding of mathematical concepts pertaining to chemical experimentation and calculations.

Office Hours:

In-Person	SC2208	T	02:25 PM	03:25 PM
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