

**Introduction to Chemistry**  
**Chem 25/section 04**  
**Course CRN 23016**

Instructor: Yue Liu ([liuyue@fhda.edu](mailto:liuyue@fhda.edu))

Office Hour: Thur. 8:00 AM – 8:30 AM and 10:30 AM - 11:30 AM @ SC1224

	Room	Days	Start Time	End Time
Lecture	SC1102	T/Th	8:30 AM	10:20 AM
Lab	SC2208	Th	11:30 AM	2:20 PM

[All lecture slides and online homework assignments are posted on Canvas.](#)

**Course Description:**

An introduction to the core theory and problem-solving techniques of chemistry as preparation for CHEM 1A and other science related fields. An introduction to gravimetric and volumetric analysis, rudimentary laboratory equipment and operations, and the preparation and maintenance of a laboratory notebook.

**Prerequisite:** Mathematics MATH 114 or equivalent. **Advisory:** English EWRT 1A or EWRT 1AH or ESL 5.

**Necessary Materials**

1. Introduction to Chemistry, 4th edition by Bauer, Birk, and Marks (McGraw-Hill)
2. Preparation for General Chemistry: Chem 25, by Applegate, Neely, and Sakuta (McGraw-Hill).  
Note: This must be purchased from the De Anza Book Store. It is not available anywhere else.
3. A scientific calculator that has at least log and exponential functions is required.
4. Safety goggles, Visorgogs® or Z87.1-2010 Rates Safety Glasses

**Resources**

- **Disability Support Program and Services** is located in SCS41 (408-864-8753 or 408-864-8748 TTY or [dss@deanza.edu](mailto:dss@deanza.edu)) to coordinate reasonable accommodations for students with verifiable documentation. <http://www.deanza.edu/dsps/>
- **Tutoring service** is located in S43 among many other campus services offered by the student success center: <http://www.deanza.edu/studentssuccess>

**Adds and Drops**

**If you do not show up for more than one day during the first week, you will be dropped.** If you choose to drop the course at any point during the quarter, it is your responsibility to withdraw from the course through Admissions and Records by the appropriate deadline.

Last Day for Adds	Oct 06, 2018
Last Day for Refund	Oct 07, 2018
Last Day for Drops w/o W	Oct 07, 2018
Last day for P/NP	Oct 19, 2018
Last Day for Drops with W	Nov 16, 2018

COURSE GRADING POLICIES:

Types of Assignments	Points per Item	Number of Assignments	Total points	Percentage
Lecture Exam	50	3	150	27%
Online Homework	10	13-2=11	110	20%
Final Exam	100	1	100	18%
Lab Final	50	1	50	9%
Pre-lab	5	9	45 (drop the lowest)	9%
Lab Report	10	9	90 (drop the lowest)	18%
Total			545	

97-100 %	A+	93-97 %	A	90-93 %	A-
85-90 %	B+	80-85 %	B	77-80 %	B-
74-77 %	C+	70-74 %	C		
60-70%	D	0-60 %	F		

ATTENDANCE

It is expected that you attend and participate in all of the lecture and laboratory sessions. If you must be absent, **you are responsible to contact the instructor via emails**. You should also exchange phone numbers with a few classmates whom you can contact regarding material missed if you must be absent.

HOMEWORK

- All Canvas HW assignments are due **on Dec 13, 2018 @ 11:59 PM**. No late submission will be accepted.

EXAMS

**Make-up exams will NOT be given.** Accommodations will be made ONLY for VERIFIED illness or legitimate emergencies. Documentation is required.

CLASS RULES AND REGULATIONS-Professional behavior is expected

- Arrive on time.** The classroom is an academic environment where students come to focus and learn. Those students who arrive on time, ready to learn, should not be disturbed by students coming in late. If you arrive late to lecture, please enter quietly from the back of the classroom.
- Be polite** to your instructor and fellow students. Any type of vulgar or rude language toward the instructor or another student may result in dismissal from the course. This rule applies to emails and phone messages as well as face-to-face exchanges!

*Any student who, in my judgment, is habitually disruptive or rude may be dismissed from the class.*

Please be polite to mute your cell phones or pagers during lecture and lab.

### **ACADEMIC DISHONESTY:**

It is your responsibility to understand what constitutes academic dishonesty in accordance with the Foothill College Academic Honor Code.

Academic dishonesty includes:

- Plagiarism
- During an exam, communicating or transferring information to another student, receiving information from someone else, looking at another person's exam, and/or using unauthorized materials such as text books, notes, etc.
- Having another person complete and submit work in your name.
- Lying to an instructor to improve your grade.
- Altering a graded work after it has been returned and then submitting the work for regarding.

**The first offense results in a zero of that assignment for all students involved. The second offense results in an "F" grade for the class.**

### Laboratory syllabus

#### Daily Check-in and Check-out Policies

- All students are expected to arrive to lab on time. If you are **more than 20 minutes late**, you get one point deduction for every 10 minutes that you are late for.
- All students are expected to do a conscientious and thorough job of cleaning up after themselves, whether it be in their own work area in the lab, or shared areas such as the chemical supply fume hood, the balance area, and the waste hume hood. You need to **obtain my signature after you finish** the activities designated for each lab meeting.

#### Lab Safety

- Being safe in the lab is a top priority. Any unsafe behavior, intentional or not, will be noted and may be cause for dismissal from the class.
- For your protection, safety goggles or visorgogs with indirect ventilation and an ANSI minimum rating of Z87.1-2010 must be worn **AT ALL TIMES** in the laboratory. **TWO** warnings will be issued to any student that is observed wearing their googles/visorgogs on their forehead, hanging them around their neck, etc. instead of wearing over their eyes. If the warning is disregarded, expulsion from the lab may result.

#### Absences

- Any unexcused absence results in a zero grade for the missed lab.
- An excused absence, upon verification with written proof, receives partial credit: up to 3 points for the pre-lab and up to 5 points for the lab report (completed using other students' data).

#### Late submission

- The pre-lab question sheet should be turned in immediately when you come to the lab. It is considered late if it is turned in after I finish the lab lecture, and will receive 2 points deduction.
- Late lab reports receive 1point deduction per lab meeting.

<b>Week</b>	<b>Tuesday Lecture</b>	<b>Thursday Lecture</b>	<b>Lab</b>
1	Sep. 25	Sep. 27	Sep. 27

	Syllabus and Chap. 1	Chap. 1 and 2	Lab Check-in Lab 1: (dry) Math Module
		Canvas HW on Chap. 1	Bring syllabus
2	Oct. 02	Oct. 04	Oct. 04
	Chap. 2	Chap. 3	Lab 2: Measurements
	Canvas HW on Chap. 2		Lab report 1 due
3	Oct. 09	Oct. 11	Oct. 11
	Chap. 3 and 4	Chap. 4	Lab 3: Density
	Canvas HW on Chap. 3	Canvas HW on Chap. 4	Lab report 2 due
4	Oct. 16	Oct. 18	Oct. 18
	Chap. 5	Chap. 5	Lab 4: Atomic structures
	<b>Exam 1 (Ch. 1-4)</b>	Canvas HW on Chap. 5	Lab report 3 due
5	Oct. 23	Oct. 25	Oct. 25
	Chap. 6	Chap. 6	Lab 5 (dry) Ionic compounds
		Canvas HW on Chap. 6	Lab report 4 due
6	Oct. 30	Nov. 01	Nov. 01
	Chap. 7	Chap. 7	Lab 6: (dry) Covalent compounds
		Canvas HW on Chap. 7	Lab report 5 due
7	Nov. 06	Nov. 08	Nov. 08
	Chap. 8	Chap. 8	Lab 7: Empirical Formula
		Canvas HW on Chap. 8	Lab report 6 due
8	Nov. 13	Nov. 15	Nov. 15
	Chap. 9	Chap. 9	Lab 8: Chemical reactions
	<b>Exam 2 (Ch. 5-8)</b>	Canvas HW on Chap. 9	Lab report 7 due
9	Nov. 20	Nov. 22	Nov. 22
	Chap. 10.1-10.3	Holiday	Holiday
	Canvas HW on Chap. 10	No class	No lab
10	Nov. 27	Nov. 29	Nov. 29
	Chap. 11.4-11.5	Chap. 13	Lab 9: Titration
	Canvas HW on Chap. 11		Lab report 8 due
11	Dec. 04	Dec. 06	Dec. 06
	Chap. 13 and Chap. 14.1	Chap. 14.2, 14.4	Lab check-out, <b>Lab final</b>
	Canvas HW on Chap. 13	<b>Exam 3 (Ch. 9-11, 13)</b> Canvas HW on Chap. 14	Lab report 9 due
12	Dec. 11	Dec. 13	Dec. 13
	No class	<b>Final Exam (Cumulative)</b> <b>7:00 – 9:00 am</b> <b>@ SC1102</b>	No Lab

From the American Chemical Society Safety In Academic Laboratories Guidelines, 7th Ed., the following mandatory minimum safety requirements must be followed by all students and be



**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.