

Chemistry 1A Syllabus

In-Person Hours:

Section 01 and 02 Lecture Monday/Wednesday: 11:30 PM- 12:45 PM Room

Section 01 Lab Monday/Wednesday: 8:30AM-11:20 AM Room: SC 2202

Section 02 Lab Monday/Wednesday: 2:30 PM-5:20 PM Room SC 2202

Instructor

Mr. Jimmy Li

Please contact me through email: lijimmy@fhda.edu for all course-related communications. You can generally expect a reply from me within 24 hours. If you send me a message over the weekend, you should expect to hear back from the following Monday.

Course Webpage

Canvas

*I will communicate with the class through the **Announcements** feature. Make sure you have e-mail alerts turned on to receive important class information.*

Zoom Link

Office Hours

MW 12:45-2:00pm Room

Fridays 9:30-10:00am Zoom

Official Course Description

An introduction to the structure and reactivity of matter at the molecular level. Application of critical reasoning to modern chemical theory and structured numerical problem-solving. Development of molecular structure from rudimentary quantum mechanics, including an introduction to ionic and covalent bonding. Chemical problem

solving involving both formula and reaction stoichiometry employing the unit analysis method. An introduction to thermochemistry and a discussion of the first law of thermodynamics.

Course Information: This class is divided into two separate instructional periods: a lecture period (in-person) devoted to the primary course material and a lab period for conducting lab experiments (in-person on campus). One registration code automatically enrolls you in both periods. Everyone will have the same lecture period, but a different lab period depending on which code you used for enrolling. At De Anza College the lab and lecture cannot be taken as separate courses under any circumstances.

Required Materials: Chemistry, A molecular approach 6th Ed. by N. Tro

ISBN-0135402263

A scientific calculator (not your cell phone or computer) that has at least log and exponential functions is required (~ \$25). Graphing calculators are fine also, but not required.

Laboratory Safety Goggles (\$25.99). These must be purchased from the De Anza bookstore to meet specifications required for chemical safety (Indirect Vent, Z87). Here is a link (<https://www.bkstr.com/deanzastore/product/uvex-stealth-goggles-gray-gray-802632-1>) to the goggles. CDC approved face masks for both lecture and lab are required. The college is no longer supplying masks for personal use, but we will be wearing them during lab and lecture. Any device that will allow you to browse the web and take photos, preferably a tablet or computer. Google Chrome or Firefox Web

<https://deanza.instructure.com/courses/31318/assignments/syllabus> 3/7 Any App that will allow you to convert photos to pdf files. See the end of the syllabus. Genius Scan, CamScan, and Notes (Apple) are free, easy options.

Prerequisites

[CHEM 25](#)

[\(Links to an external site.\)](#)

or [CHEM 30A](#)

[\(Links to an external site.\)](#)

or satisfactory score on Chemistry Placement Test; [MATH 114](#)

[\(Links to an external site.\)](#)

or [MATH 130](#)

[\(Links to an external site.\)](#)

or equivalent.

Please review the official course outlines (linked above) for a list of essential topics.

Important Dates

- **Add Day** 10/6/2024 Last day to *add*.
- **Drop Day** 10/6/2024 Last day to *drop* the course with a refund *and* without a withdraw being recorded.
- **Withdraw** 11/15/2024 Last day to *withdraw* from the course. A “W” will be recorded on your transcript.

Hours

The study of chemistry combines both macroscopic and microscopic views of the natural world with mathematical models to explain and predict phenomena. This is a 5-unit class, and ***I expect you to spend 2–3 hours a day on reading, lecture videos, and class assignments.*** Set aside a time and place that you can work on class materials every day.

Attendance Policy

Your *punctual* attendance is expected at all lecture and laboratory sections of the course.

Late work will not be accepted under any circumstances. In the case of a documented emergency (e.g. hospitalization, court appearance, car crash), I may excuse you from that day’s work. These instances will be handled and decided on a case-by-case basis.

Academic Integrity

Students are expected to adhere to the policy on academic integrity that is outlined in the De Anza College manual (<https://www.deanza.edu/studenthandbook/academic->

integrity.html). I expect all submitted work to represent your own understanding of the material and to be written in your own words. Cheating, copying, plagiarizing, etc. will not be tolerated, and the minimum consequence will be receiving a zero on that assignment and the incident will be reported to the Dean of Student Services. Cheating on a Quiz or other assessment will result in automatically failing the course. Examples of cheating include, but are not limited to: –Looking up answers for any assignment in Chegg, Course Hero, or any similar website. –Asking another person to take a quiz or exam for you, or taking a quiz or exam for another student. –Using unauthorized notes during an exam or quiz. –Copying another person’s words without quotations or footnotes. –Using information that is not considered common knowledge without acknowledging the source.

Grading Breakdown and Expected Grade Scale

To succeed in this course, you will need to exhibit consistent and sustained effort throughout the quarter. Your final grade will be based on your final percentage out of the total points available.

Percentage in Class	Grade¹
> 93%	A
90 – 92.9%	A–
87 – 89.9 %	B+
82 – 86.7%	B
78 – 81.9%	B–
72 – 77.9%	C+

65 – 71.9%	C
60 – 64.9%	D+
50 – 59.9%	D
<50%	F

NOTE: Mr. Li reserves the right to alter the grade scale at any point in the quarter.

The points are broken down into weighted categories—note that not all points are equal weight! Each category is described below.

Assignment Category	Percentage of Final Grade^{1,2}
Mastering Chemistry	20%
Labs	30%
Two Midterms	30%
One Final Exam	20%

¹ If you end the quarter with less than 50% in any assignment category, you will receive an F in the class.

² The weights of these assignment categories may change. For example, if there are repeat violations of the academic integrity policy in any category, this scale will be adjusted.

Registration, Attendance, and Conduct Policy: Registration: Enrollment in each section is strictly limited to 30 students per section. Class spaces are filled in accordance with the official class roster from Admission and Records, followed by the official wait list. Any errors with registration or status must be addressed directly to Admission and Records. Attendance: Lecture and Lab both are IN PERSON. Attendance is expected during all lectures and all laboratory periods. Please see the lab section about specific information regarding lab attendance. Dropping the Course: If you choose to drop the course at any point during the quarter, it is your responsibility to withdraw from the course through MyPortal by the appropriate deadline. Conduct: Students are also expected to abide by the Academic Integrity policy as outlined in the De Anza College catalog at all times. Students caught cheating or plagiarizing on any assignment can be expelled from the course and receive a grade of "F." If collusion between students to cheat can be demonstrated, each student will receive this same penalty. Class Grade Format

To do well on a Quiz or an Exam you should... 1. Read each chapter carefully before attending Lecture. Not every detail will be covered in lecture, but you are still expected to understand the whole chapter. 2. Do the assigned odd end-of-chapter problems at the end of each chapter. If you feel you have a particular concept down, it is not necessary to do every problem, but do practice the end-ofchapter odd problems before you attempt the Aktiv Chem Quiz. Solutions to the textbook problems are found after Appendix M at the end of the textbook. 3. DO NOT FALL BEHIND WITH THE READING OR HOMEWORK!! This is the number one mistake you can make. Concepts in chemistry are like building blocks. Initially, you learn one topic to build up to larger concepts

Study Tips

1. Complete the assigned reading before coming to class. Write down any vocabulary words that you do not understand as well as their definitions.
2. Take *handwritten* notes during class and review your notes regularly. Write down any questions you have and bring them to office hours or e-mail your instructor.
3. *Do a little bit every day.* After every lecture, review the reading assignment and complete in-chapter and end-of-chapter exercises.
4. Join a study group. Work on problem sets together. The best way to learn the material is to teach it to somebody else.
5. If you feel that you are a poor test-taker, *complete and turn in all assignments on time* in order to pass the class.

6. Take care of yourself! Stay well-rested and drink water.

Final Exam

This class will include a final exam on ***Monday (12/9/24) from 11:30 am to 1:30 pm.*** The date and time of the final exam are set by the college and cannot be moved under any circumstances. If you cannot take the final exam, you should not sign up for the class.

Student Learning Outcome(s):

- Identify and explain trends in the periodic table.
- Construct balanced reaction equations and illustrate principles of stoichiometry.
- Apply the first law of thermodynamics to chemical reactions.

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Office Hours:

M,W	12:45 PM	02:00 PM	In-Person	Sc1120
F	09:30 AM	10:40 AM	Zoom	