

Synchronous Class Meetings

1A.05Y (CRN 32191)

TuTh 07:30 am -- 10:20 am In person Lab

TuTh 11:30 am – 12:45 pm Zoom Online ID956 1194 5231 password 908266

<https://fhda-edu.zoom.us/j/95611945231?pwd=ZkJUaJJEWm1LSU1hajB0WkFXaVRaUT09>

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 Links

<https://fhda-edu.zoom.us/j/95611945231?pwd=ZkJUaJJEWm1LSU1hajB0WkFXaVRaUT09>

Office Hours

We can chat during in person lab meetings or you may request a virtual office hour.

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.

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** January 15, 2022 Last day to *add*.
- **Drop Day** January 17, 2022 Last day to *drop* the course with a refund *and* without a withdraw being recorded.
- **Withdraw** February 25, 2022 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. In order to be counted “present” and receive credit for that day’s activities, ***you must arrive during the first 5 minutes of class***. If you try to enter the zoom class after that 5-minute window, I cannot guarantee that I will see you in the waiting room. If you will have to miss a meeting for any reason, let me know by e-mail or phone as soon as possible. Notifying your instructor of absences or tardiness shows that you take your responsibility towards yourself and your fellow students seriously.

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+
66 – 71.9%	C
60 – 65.9%	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}
CHEM101 Assignments and In-Class Activities	30%
Lab assignments + Labster simulations	35%
Labs are divided into group A (Last name A-K) and group B (Last name L-Z).	
Lab Exam	8%
One Midterm + Final Exam	27%

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.

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.

CHEM101 Assignments and In-Class Activities

We will use Chem101 as our online homework and “clicker” system during the summer quarter. You must sign up for a Chem101 account on the first day of class. The cost of Chem101 is ~\$20. Once you sign up for an account, there is a two-week grace period before you must purchase access for the remainder of the quarter.

Each in-class question will be worth 1 point, and the number of questions will vary each day. ***Make sure you attend every class session to receive credit.*** If at any point during the Zoom sessions, you leave or do not participate, I reserve the right to eject you from class for the day and ***you will receive zero points for all of the day’s activities and assignments.*** If you need to leave the session or step away for any reason, send me a message in the Zoom chat with your expected return time. If you leave without contacting me or informing me *at that time*, you will receive a zero for that day’s practice problems.

Lab Exam

The lab exam will take place during the final class meeting on ***March 17th from 11:30 am – 12:30 pm.*** Additional details will be announced through Canvas at a later date.

Midterm: TBA

Final Exam

This class will include a final exam on ***Tuesday, March 22nd from 9:00 am to 11:30 am.*** Additional details will be announced through Canvas at a later date. 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.