

## Chemistry 1A Greensheet – Lecture & Lab

Instructor: Michael Lane  
Office Hours: 5:45 – 6:30 & 7:30 to 8:30  
Phone: 408 839 5228 – You may text me from 7:00 a.m. to 9:00 p.m.  
Lecture Hours: M/W 4:30 – 5:45  
Lab Hours: M/W 3:30 – 4:20 section 05Z; M/W 6:30 – 7:20 section 06Z

Fall 2021  
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Additional Lab Hours You should expect an additional 3 Hrs/week of time devoted to the completion of assigned Laboratory experiments (or research assignments). Study time, HW, and Lab assignments will add additional time. Plan on 20 hrs/week for this course.

Zoom URL:

<https://fhda-edu.zoom.us/j/9532118916?pwd=b2g0RTEwYStRaktRUmdyTU5lcWhZQT09>

Communication: One of the things that has not changed with On-line learning is that students usually do not communicate until AFTER their grade is beyond repair. I am usually alone during office hours. If you are stuck on a topic, have questions about the class, do not understand how to submit work in Canvas, etc., the most effective means of getting help is to attend office hours.

Required Texts: Silberberg, Chemistry, The Molecular Nature of Matter and Change, 9th edition. (The 8<sup>th</sup> edition is acceptable, earlier versions are not – the HW problems are too different).

A **Graph ruled** notebook is required for the laboratory. It must be **bound** and the pages must either be numbered or you will need to number them.

Technology requirements: 1) The ability to create pdfs of your written work. I recommend Genius Scan or similar. 2) Audio and visual presence during zoom sessions. 3) Use of your full De Anza registration name on Zoom sessions. Please do not use nicknames, or first names only. I use this for some grading purposes.

Prerequisites: Chemistry 25 and Intermediate Algebra, or satisfactory score on Chemistry placement test. It has been my experience that students who received a grade of C in Chemistry 25 seldom complete this course.

Study Expectations: This course is a descriptive course in General Chemistry. Often, a concept in Chemistry is more easily explained if a student has a background in Calculus or Physics. Where necessary, I will provide the necessary background or provide an alternative explanation. A solid background in algebraic manipulation is necessary and will be assumed. You should plan on committing 20 hours a week for this course if you wish to master the material. If your math or chemistry skills are very weak, you may need to commit more time to studying.

Laboratory: You must receive a passing grade in the lab to receive a passing grade in the course.

Homework: Homework from the text for each chapter will be provided. Additional problem sets may also be provided. Homework will be due approximately weekly. The specific due dates will be posted in Canvas

The following criteria must be met to earn full credit for the homework: 1) It must be handwritten, 2) All work, and all steps must be clearly shown, 3) All units (if any) must be shown, 4) underline or highlight your answers. 5) The question number must be shown and space between questions must be provided, 6) leave a 1" margin on all work.

Each chapter homework is worth 25 pts. I will generally select approximately 4 questions to review in detail. Each of these questions will be graded on a 5pt scale. The remaining 5pts will be granted for substantial completion of all other assigned problems.

Participation: You are expected to attend the live (synchronous) on-line portions of this class. Problems may be assigned during class. Your participation grade will be based, in part, on your attendance and response to questions during class.

Exams/Quizzes: Three lecture examinations will be given. None of the scores will be dropped. No make-up examinations will be given. Exams may be both oral and written. The midterms are based primarily upon material discussed since the previous midterm. However, as the course material builds upon itself, if you start off poorly, it will have an effect on your ability to do well on subsequent exams. Several (5-10) Lab quizzes will be given. In general, these will cover the 1 or 2 most recent lab experiments or discussed topics. While I will announce many of these quizzes in advance, I will not always do so.

Exam/Quiz questions: Students often ask "What is going to be on the exam". The answer "Chemistry Questions". I promise not to ask Political Science, Automotive Technology, Biology Questions, etc. You should study my lectures, the homework problems and the book in that approximate order.

Your camera and microphone must be on and functional during exams & quizzes.

Glassware & Chemical Kits: At the end of the second week of class, you will be able to and MUST order the glassware kits. There is no cost. Neither I nor De Anza can do anything about shipment delays for students with international addresses. We will address potential delays on a one by one basis. Upon receipt of your equipment, immediately check the contents (including whether the chemical containers are full) against the equipment & materials checklist. You will receive a "kit code" and it may be on the box. So, do not discard the box or other paperwork.

Late Work – I strongly recommend that you get in the habit of finishing assignments early! Oh the horror of not waiting until the last minute. How will you survive without the adrenaline rush of submitting work at 11:59 p.m. on the day it is due! My internet went down, my dog/cat/goldfish became suddenly ill, my family is fighting again, etc. are not acceptable excuses. 20% will be taken off for work that is 1 day late. After that, late work will not be accepted.

<u>Grading:</u>	Midterms	300 points	(approximate)
	Final (comprehensive)	300 points	(approximate)
	Homework	250 points	(approximate)
	Participation – Lecture	50 points	(approximate)
	Laboratory (reports, quizzes, etc.)	400 points	(approximate)

The grade for the course will be assigned as follows:

95-100% = A	92-94.9 = A-	89-91.9 = B+	85-88.9 = B	82% - 84.9 = B-
75-81.9 = C+	60-74.9 = C	50-59.9 = D	Below 50% F	

I may lower these percentages based upon the class “curve”. i.e. make it easier to obtain a specific grade. I will not raise them.

Please note that the next statements in this paragraph are not a guarantee, just an observation of the arithmetic associated with the grading scale. The timely completion and submittal of homework, the completion and submittal and Laboratory work, and the demonstration of a mere modicum of knowledge will be sufficient to pass this course. Of course, the demonstration of mastery of the material on the exam may be necessary to achieve a grade of A.

A request to review a grade must be received within 1 week the posting of the score in Canvas. After that, all scores are final.

Cheating: YOU are responsible for understanding the De Anza Academic Integrity policy. The minimum penalty for cheating will be a score of zero on the assignment in question. Also, cheating that is identified after the end of the quarter will result in a change of grade which may affect your enrollment in Chemistry 1B. i.e. you could get dropped from the course

Lecture Recordings: I will endeavor to, but cannot guarantee that I will, post copies of the Zoom sessions.

Questions: I love questions about Chemistry, the nature of the atom, the nature of the universe, the mechanism of chemical reactions, how to balance equations, etc. I detest questions for which the answer is easily obtained by reading this greensheet.

Week of			
	Tuesday		Thursday
20, Sep	Chapter 1		Chapter 2
27, Sep	Chapter 2/3		Chapter 3
4, Oct	Chapter 4		Chapter 4
11, Oct	Chapter 6		Exam #1 (everything discussed through Oct 6)
18, Oct	Chapter 6		Chapter 7
25, Oct	Chapter 7		Chapter 8
1, Nov	Chapter 8		Chapter 9
8, Nov	Exam #2 (Everything discussed through November 4)		Veterans Day
15, Nov	Chapter 9		Chapter 10
22, Nov	Chapter 10		Thanksgiving
29, Nov	Chapter 11		Exam #3 – (everything discussed through November 23)
6, Dec	Final Exam		Everything from the first word of my first lecture to the last of my last lecture.

**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.