

Chemistry 1A Greensheet - Lecture

Instructor: Michael Lane
Office Hours: M/W 4:30 – 5:45 p.m. & by appt.
Lecture Hours: M/W. 6:00 – 7:15

Fall 2020
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Zoom URL: <https://cccconfer.zoom.us/my/michael.lane>

Required Text: Silberberg, Chemistry, The Molecular Nature of Matter and Change, 9th edition. (The 6th - 8th editions are nearly identical)

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.

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.

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.

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) The question number must be shown and space between questions must be provided, 5) leave a 1" margin on all work.

Participation: You are expected to attend the live on-line portions of this class. Problems may be assigned during class and you will be expected to submit your work for these problems within 15 minutes of the end of the class. Your participation grade will be based upon 1) your attendance, 2) Submission of homework, 3) answering questions asked during class, and 4) participation during any breakout sessions.

On many occasions, I will take time during lecture to pose example questions. Your attempts at answering these questions will need to be submitted promptly after the end of class.

As it is challenging for me to lecture at the green dot, I prefer that you remain on video as well.

Exams/Quizzes: Three 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

Grading:

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| Midterms | 300 points (approximate) |
| Final (comprehensive) | 150 points (approximate) |
| Homework (total) | 250 points (approximate) |
| Participation – Lecture | 100 points (approximate) |
| Laboratory | 300 points (approximate) |

The grade for the course will be assigned as follows:

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| 94-100% = A | 91-93.9 = A- | 88-90.9 = B+ | 84-87.9 = B | 81% - 83.9 = B- |
| 74-80.9 = C+ | 60-73.9 = C | 50-59.9 = D | Below 50% F | |

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

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.

Course curriculum: We will cover chapters 1-4, and 6-11. Chapter 5 (gas laws is covered in Chem 1B)

Course Schedule: Chapters 1-4 will be covered in the first 5 or 6 lectures. Then, we will slow down and cover approximately 1 chapter per week (i.e. per 2 lectures)

Exam Schedule: This schedule is subject to change. Exams will be on a Wednesday and cover all new material covered through the previous Wednesday. i.e., I will not lecture on new material on a Monday and test you on that material two days later.

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| October 14: | Exam #1 |
| November 4: | Exam #2 |
| November 11: | Veterans day holiday – no classes |
| December 2: | Exam #3 |
| December 7: | Final Exam – 6:15 start time |

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.