

## Chemistry 1A Greensheet

Instructor: Michael Lane  
Office Hours: M/W 2:00 - 2:30 p.m. & 7:15 – 7:30 p.m.; T 4:00 – 5:00 via Zoom  
Winter 2023  
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**Required Text:** Silberberg, Chemistry, The Molecular Nature of Matter and Change, 9<sup>th</sup> edition. (The 7<sup>th</sup> & 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:** A homework assignment will be provided. The selected problems are representative of those that you can expect to see on exams. This homework assignment represents the **minimum** number of problems that you should complete. The completed homework must be submitted as a pdf into Canvas by the due date. As the due date is already several days after you should have completed the work, no late HW assignments will be accepted. Each homework assignment is worth 10 points.

Also, with due respect to the other disciplines within the college, this 5 unit Chemistry class is likely to be the most difficult class you will have encountered to date. You should anticipate at least 10 hours per week of study time outside of class time. **10 hours per week of study time and 8 hours of in class time is roughly the equivalent of a ½ time job. If you are working ½ time (or more) already and taking a full class load (12 units or more), then it is likely that something in your life will suffer. This may include 1) your grades, 2) your job, 3) your health, and/or 4) your relationship with friends and family.**

**Exam Study guide:** I have provided a study guide for the first exam. This is very typical of the first exam that I have given during the last 30 years. If you are prepared for this course, then most of the questions should look familiar.

**Exams/Quizzes:** Three examinations will be given. None of the scores will be dropped. No make-up examinations will be given.

**Grading:**

Midterm exams	450 points (approximate)
Homework	100 points (approximate)
Final (comprehensive)	200 points (approximate)
Laboratory	350 points (approximate)

The grade for the course will be assigned as follows:

91-100% = A	88-90.9 = A-	85-87.9 = B+	80-84.9 = B	77% - 79.9 = B-
72-76.9 = C+	62-71.9 = C	50-61.9 = D	Below 50% = F	

**Exams:** The midterms will focus on new materials. However, the understanding of the early chapters is often necessary to complete the new material. The midterms exams contain 20-25 questions. About ½ are (in my opinion) very simple questions. About 1/3 require a single calculation or understanding of a fundamental concept and about 1/3 require combining multiple steps or concepts into a single problem.

**Final Exam:** The final exam is comprehensive. It will be primarily multiple choice and contain approximately 60 questions.

**Cheating:** The **minimum** penalty for cheating on an exam, or plagiarism in the lab, is the assignment of a zero on the assignment in question. The matter will be referred to the DeAnza administration for appropriate action and possible further discipline. YOU are responsible for understanding the De Anza Academic Integrity policy

**Attendance:** I will drop any individual that is not present at the first or second scheduled class meeting. It is your responsibility to insure that you have properly dropped this course. **Your work load, course load, transportation difficulties are all avoidable! The message: You must be academically prepared and be committed to this class. The failure rate for this class is typically approximately 30%.** The common reasons are 1) lack of academic preparation (usually poor algebra skills), 2) lack of study time, or 3) too heavy a course load.

It will be rare (hopefully not at all) that I arrive late for class. I expect the same from you.

**Miscellaneous:** Cellular phones must be turned off and put away during lecture. ONLY NON-PROGRAMMABLE calculators are allowed during quizzes and examinations. That is, the TI 84/85 series or similar calculators MAY NOT be used.

Week of		Monday		Wednesday
	9-Jan	Intro/Chapter 1		Chapter 2
	16-Jan	Holiday		Chapter 3
	23-Jan	Chapter 3		Chapter 3/4
	30-Jan	Chapter 4		Exam #1
	6-Feb	Chapter 6*		Chapter 6
	13-Feb	Chapter 7		Chapter 7
	20-Feb	Holiday		Chapter 8
	27-Feb	Chapter 8		Exam #2
	6-Mar	Chapter 9		Chapter 9
	13-Mar	Chapter 10		Chapter 10
	20-Mar	Chapter 11		Exam #3
	27-Mar	Final exam at 6:15 p.m.(To be verified)		
	* Chapter 5 (Gas laws) is covered in Chemistry 1B			

**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.

**Office Hours:**

M,W 05:30 PM 06:00 PM In-Person Part time faculty office -  
second floor science building

M,W 07:15 PM 07:30 PM In-Person Part time faculty office -  
second floor science building

T 04:00 PM 05:00 PM Zoom