

**CHEM 25: Preparatory Course for General Chemistry****Syllabus**

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 And by appointment  
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Lectures:	M/Tu/W/Th	5 <sup>30</sup> -7 <sup>20</sup> pm	Mandatory Zoom Meeting	
Solo work:	M/W	2 <sup>30</sup> -3 <sup>45</sup> pm 4-5 <sup>15</sup> pm	Solo work offline	12276 12277
Labs:	Tu/Th	2 <sup>30</sup> -3 <sup>45</sup> pm 4-5 <sup>15</sup> pm	Mandatory Zoom Meeting	12276 12277

**Pre-requisites:**

MATH 114 or equivalent. EWRT 1A or ESL 5 recommended.

**Course Description**

An introduction to the core theory and problem-solving techniques of chemistry as preparation for CHEM 1A and other science related fields. An introduction to gravimetric and volumetric analysis, rudimentary laboratory equipment and operations, and the preparation and maintenance of a laboratory notebook.

**Required Materials:**

- Bound lab notebook for writing down observations, data, and any calculations (will be scanned and uploaded with lab reports) **[there should be separate sections for lab and lecture!]**
- Scientific calculator (with log functions)
- Lecture Text – Introductory Chemistry Tro 6<sup>th</sup> Ed.
- Online Readings (posted on Canvas)
- Lab Manual PDF – online via Canvas (no need to print it)
- Chem101 – online platform for taking exams, doing homework, and practice (purchase @ bookstore)
- Adobe Scan App – used for converting pictures to PDFs (any free app will do)

**Class Conduct/Zoom Expectations**

- Log into Zoom on time or early to sit in the waiting room. (check canvas for the meeting ID under the syllabus tab)
- Be on zoom actively participating the entire time the course is synchronous. Contact your instructor if anything comes up and you can't attend the meeting.
- Keep your microphone muted until you are ready to speak or have been called on.
- Always use your real name as it appears on the roster, this way I can keep attendance when necessary.
- Use the nonverbals (raise hand, yes, no, slower, faster) to help communicate your needs with me without interrupting the flow of the class.
- Be prepared to talk on the microphone every class. This might mean you need to use your phone to dial in if your microphone doesn't work.
- Keep your video on, unless your internet is lagging, then turn off your video. If you can't, then you need to have a new picture of your face each day! I don't want to stare back at empty names only.
- On the first day of class, you will need to have video on for a minute to introduce yourself.

**CHEM 25: Preparatory Course for General Chemistry****Syllabus****Grades:**

*DISCLAIMER: I will not assign letter grades until the end of the term; I then create my own grading scale based on the distribution of percentages in the course. An example of a previous term is shown to the right. My goal in this course is to challenge you and develop your critical thinking. The level of difficulty will demonstrate that and test you, but the grades are meant to show your level of effort & understanding in the course.*

Latter Grade	A	B	C	D	F
Standard Scale	90-100	80-89.9	70-79.9	60-69.9	<60
My Old Scale	88-100	74-87.9	64-73.9	54-63.9	<54

Your grade will be based on several parts and divided as shown to the right:

- **Lecture** – lecture will be interactive and mandatory to attend. They will be made up of exams and lecture notes along with guided activities for possible extra credit.

Lecture	650
HW	100
Lab	250
<b>Total</b>	<b>1000</b>

- **Exams** will be worth 600 points (60% of your grade). There will be 4 exams, each worth 150 points and focused on specific sections of the course.

However, chemistry always tends to build on previous knowledge, thus keeping up with old material will help you throughout the course. There will also be extra problem-solving sessions during and possibly outside of class that will help students prepare for the exams. To study for the exams, I would recommend completing all homework assignments, reviewing lecture notes in a study group, and then attempting the practice exams on Canvas. If you find that you need extra practice material for a certain section or chapter, I have posted Worksheets online that have an overabundance of practice material. Please use these as a source of extra work for any subject that you find you are struggling with; we can review this material during office hours.

- **Break-out Sessions** will be worth 50 points (5% of your grade) and will be given during lecture at random times when you will be asked to break out with other students via canvas. These will be similar to group quizzes however it is based on material we have not fully covered, and you are being asked to work with others to solve or work through to your best ability some problem. You will have 10 minutes to complete and complete on chem101.
- **Homework** – your homework will be worth 100 points total (10% of your grade). You will use chem101, an online service, to complete your homework problems. Each assignment will be due the evening of the exam for that chapter. The homework is selected to help you focus on key problems for each chapter and to help you understand the material through practice. You should be keeping up with the homework as we cover the material in lecture.
- **Lab** – your lab portion will be worth 250 points in total (25% of your grade). This will include all work for any labs conducted from the lab manual online.
  - **Lab Activities** will be worth 150 points (15% of your grade) and will be completed during lecture/lab hours and will count towards your overall lecture grade. These worksheets should be scanned and uploaded to canvas under the appropriate assignment page. Make sure to complete fill out the worksheet and double check your answers.

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- Experiments will be worth 100 points (*10% of your grade*). These will all be submitted online via canvas and the due dates will be clearly shown there as well. Please make sure to ask for any questions regarding due dates. As for the assignments themselves, please make sure to fully read through the Lab Manual which has been created to help you through the lab portion of this course. Especially with regards to how to complete each assignment and my personal expectations. We will review this on the first day of lab as well. (Lab Assignments will be deducted 10% per day they are turned in late. If you contact me prior to the due date, the penalty might be waived, depending on the circumstances. You must submit all assignments to receive a passing grade in the course.)

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**Students with Disabilities**

Students who are seeking support from the Disability Support Programs and Services (DSPS) should contact them directly at their office in LCW 110 or at (408) 864-8839 or via [www.deanza.edu/dsps](http://www.deanza.edu/dsps). De Anza College has the policy to accommodate all individuals regardless of disabilities, as such any students are welcome to come and speak with me privately regarding any accommodations necessary. They should email me directly and we can meet, please plan to bring your Accommodation Memo from the DSPS. Anything discussed will be kept in strict confidence and will not influence or affect your grade.

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**Academic Integrity**

Academic integrity is a very serious thing. Cheating, copying, plagiarizing, or any form of using other person's work as your own is a serious offense. For more details about De Anza college's Academic Integrity policy go to <http://www.deanza.edu/studenthandbook/academic-integrity.html> to view. Any instance of academic dishonesty will not be tolerated and said students will not receive a passing grade in the course.

Since this course is now meeting remotely via Zoom, it will place the responsibility of being totally honest onto your shoulders, that is why I ask that you think twice before looking to cheat or take an easy way to finish an exam, quiz, or lab assignment. I believe every student wants to work hard and own their own work, please show me that I'm right.

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**How to Approach This Course:**

This course will move fast covering a variety of topics. In general chemistry is best studied through repetition of practice problems and group discussion of theories. I recommend forming a study group as soon as you can and meeting regularly. A good idea for a study group is to come together with a plan of action for each session. For example, come to the group planning to review a practice exam or working on hard challenge problems that some people did not understand.

In order to do well in chemistry, I advise a variety of methods to study:

- Read ahead in the textbook
- Complete homework problems (first with help if need be, second without help)
- Complete lab assignments
- Flashcards and study group work to teach each other (the best way to see if you know something, is if you can teach it to someone else)

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- Attend lecture actively
- Attend office hours with questions, talk to me!

**Schedule:**

The following is the layout of the weeks:

- Homeworks are due the night of the exams at 11:59pm.
- Lab Reports/Activities are due 1 week from the beginning of the meeting time for that experiment, prior to the start of the next lab meeting. (The last one will be due earlier than this see the schedule).
- Exams will be conducted during the lecture times of on that day.

<b>CHEM 25 Schedule (subject to change)</b>					
<b>Week</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wed</b>	<b>Thursday</b>	<b>Labs</b>
<b>6/29</b>	<b>Ch 1</b>	<b>Ch 3</b>	<b>Ch 4</b>	<b>Exam 1 (Ch 1-3)</b>	<b>Activity 1 &amp; Lab 1</b>
	<b>Ch 2</b>				<b>Activity 2, 3, &amp; 4</b>
<b>7/6</b>	<b>Ch 4</b>	<b>Ch 9</b>	<b>Ch 9/10</b>	<b>Ch 10</b>	<b>Lab 2</b>
					<b>Activity 5</b>
<b>7/13</b>	<b>Exam 2 (Ch 4, 9, 10)</b>	<b>Ch 5</b>	<b>Ch 6</b>	<b>Ch 7</b>	<b>Lab 3</b>
					<b>Activity 6</b>
<b>7/20</b>	<b>Ch 7</b>	<b>Ch 8</b>	<b>Ch 8</b>	<b>Exam 3 (Ch 5-8)</b>	<b>Lab 4</b>
					<b>Activity 7</b>
<b>7/27</b>	<b>Ch 11</b>	<b>Ch 12</b>	<b>Ch 13</b>	<b>Ch 13</b>	<b>Lab 5</b>
					<b>Activity 8</b>
<b>8/3</b>	<b>Ch 14</b>	<b>Ch 14</b>	<b>Exam 4 (Ch 11-14)</b>	<b>No Class</b>	<b>No Lab</b>
					<b>No Lab</b>

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**Student Learning Outcome(s):**

- \*Assess the fundamental concepts of modern atomic and molecular theory.
- \*Evaluate the standard classes of chemical reactions.
- \*Demonstrate a fundamental understanding of mathematical concepts pertaining to chemical experimentation and calculations.