

Winter 2021

# Course Syllabus

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## Instructor:

Dr. Cinzia Muzzi

Phone: 408-864-5790 (I only receive messages at this number)

## Synchronous Zoom Hours:

### Section 05

Tuesday and Thursday Lab: 8:30 PM-10:20 PM

### Sections 05 and 06

Tuesday and Thursday Lecture: 10:30 AM-11:45 AM

### Section 06

Tuesday and Thursday Lab: 2:30 PM-4:20 PM

## Office Hours/ How to Contact Me:

### Office Hours

TTh 1:30 PM-2:30 PM Zoom Office Hours

To join office hours please click on the this link during office hour times found in each module. You will be placed in a waiting room initially and admitted to Zoom office hours one at a time.

TTh 4:30PM-5:30 PM Email Office Hours

I will be available for office hours via email during this time. This means I will answer your emails immediately in this time frame. If you have something private to discuss, such as grades, emergencies, etc. this is a good way to communicate that information. Please be sure to always use the **In Box** in the lefthand toolbar to send an email.

### Email

Outside of Email Office Hours I generally am able to answer emails within 24 hours Monday-Friday between 8:00AM-5:00PM. Emails sometimes may take up to 48 hours for a response if you email on a Tuesday or Thursday where I am in on-line class most of the day. Please note that I may not answer email on the weekends depending on time and internet availability.

Always use the **In Box** in the lefthand tool bar to send emails. When you communicate through the **In Box** I am sure to see your email. Otherwise your email potentially could be lost in the 25-75 emails I receive per day at my general email address. If for some reason you need to email me outside of Canvas, my email address is [muzzicinzia@fhda.edu](mailto:muzzicinzia@fhda.edu)

## Course Information:

This class is divided into two separate instructional periods: a **lecture period** devoted to the primary course material and a **lab period** for conducting lab experiments (which we will be doing on-line this quarter!). One registration code automatically enrolls you in both periods. Everyone will have the same lecture period, but a different lab period depending on which code you used for enrolling. **At De Anza College the lab and lecture cannot be taken as separate courses under any circumstances.**

## Required Materials:

- Chemistry: The Molecular Nature of Matter and Change, 9th edition by Martin Silberberg** (McGraw-Hill)
  - Chapters and Appendices for Chem 1B Only (\$30) ISBN: 9781307600964 (Follow the directions in the Getting Started Module to obtain this version of the text).
  - Access to the complete text, 1 year access (\$90)

ISBN:1260477371 (obtained by signing in through the link below)

<https://connect.mheducation.com/class/c-muzzi-all-sections>

- You can also look for a used text on Amazon or any other retailer. The 8th edition should be fine as well.

- A scientific calculator that has at least log and exponential functions is required (~ \$25). Graphing calculators are fine also, but not required.

- Chem101 Subscription** (\$19.95). This is the on-line system we will use for quizzes and Breakout Room Activities.

- Any device that will allow you to browse the web and take photos, preferably a tablet or computer.
- Google Chrome or Firefox Web Browser

- Any App that will allow you to convert photos to pdf files. See the end of the syllabus. Genius Scan, CamScanner, and Notes (Apple) are free, easy options.**

- HOL Chemistry kit.** This is provided to you for free by the college and is not available until 2 weeks after the quarter starts. **Please be aware that if you are an international student, you will have to work out shipping and any International Customs paper work to have the kit delivered.**

## Registration, Attendance, and Conduct Policy:

**Registration:** Enrollment in each section is strictly limited to 30 students per section. Class spaces are filled in accordance with the official class roster from Admission and Records, followed by the official wait list. Any errors with registration or status must be addressed directly to Admission and Records.

**Attendance:** Lecture and Lab will be provided via Zoom. Lecture and lab are offered synchronously, and attendance is expected during all lectures and all laboratory periods. While a there are synchronous components to the course, most assignments will be asynchronous (meaning you can complete them off line by the given deadlines).

**Dropping the Course:** If you choose to drop the course **at any point** during the quarter, it is **your** responsibility to withdraw from the course through MyPortal by the appropriate deadline.

**Conduct:** Students are also expected to abide by the Academic Integrity policy as outlined in the De Anza College catalog at all times. Students caught cheating or plagiarizing on any assignment will be expelled from the course and receive a grade of "F." If collusion between students to cheat can be demonstrated, each student will receive this same penalty.

## Class Grade Format:

### Grading and Exam Schedule (Exam dates are tentative):

- Lecture Exams (200 points) (The lowest exam score will be dropped) **400 pt**
- Final Exam **200 pt**
- Chem101 Quizzes (The lowest quiz score will be dropped) **200 pt**
- Canvas Laboratory Reports (20 pt each)(Lowest score will be dropped) **180 pt**
- Lab Exam **70 pt**

Total Possible Points : **1050 pt**

### Grade Scale:

% of Total Points Possible	Grade
92-97	A
89 - 91	A-
85 - 88	B +
82 - 84	B
79 - 81	B-
75 - 78	C +
68 - 74	C
64 - 67	D +
61 - 63	D
58 - 60	D-
less than 58%	F

**Dr. Muzzi reserves the right to change exam and quiz dates as well as modify the grade scale at any point during the quarter.**

## Homework Assignments and Chem101 Quizzes

Students should plan to read 1.5-2 chapters per week. Homework is assigned from the textbook, but not collected or graded (See each weekly module for individual assignments.). A weekly **timed** Chem101 quiz will be provided for you to assess your basic skills and to help keep you on track with the course. The quizzes are designed to test basic skills, but they are **NOT** comprehensive. Doing the textbook homework is critical for your success.

Each Chem101 quiz is worth 20 points. Your lowest quiz score will be dropped. The Chem101 quizzes are timed. You can choose to take the quiz at any time by the due date, but once you start the quiz you must complete it. You can not return to the quiz at a later time. You are allowed to tries per question, and you are expected to do **your own** work. **No early, late, or make-up quizzes will be given.**

To do well on an exam make sure you do the following:

- Read** each chapter carefully **before attending the Zoom Lecture**. Not every detail will be covered in lecture, but you are still expected to understand the whole chapter.
- Do the **red practice problems** at the end of each chapter up to (but not including) the Comprehensive Problems section. See the homework assignment in each weekly module.
- DO NOT FALL BEHIND WITH THE READING OR HOMEWORK!!** This is the number one mistake you can make. Concepts in chemistry are like building blocks. Initially, you learn one topic to build up to larger concepts. If you are shaky on a topic early on, your whole foundation will be unstable. To avoid this, try to read ahead of the scheduled lecture topics and keep up with the homework.
- Take the weekly Chem101 quiz seriously as a self assessment to see if you have the basics down from lecture. The Chem101 quizzes are **NOT** comprehensive (the homework is). If you only do the quizzes (and not the homework), you will likely end up with a very poor grade overall.

## Lecture and Final Exams:

There are three lecture exams and one final exam. Material covered in lecture, in the assigned reading, end-of-chapter problems and in Chem101 will be on the exam. Each lecture exam is worth 200 points. **Only your top two lecture exam scores will count as part of your overall course grade. No early, late, or make-up exams will be given.**

The final exam is **cumulative** and is worth 200 points. The final exam is **not** one of the exam scores that may be dropped out of your overall course score. **No early, late, or make-up final exams will be given.**

If you feel that any of your exams are graded incorrectly, you are always welcome to submit the exam for a **complete re-grade at the end of the lecture or laboratory period on the day the exam is passed back.**

## Laboratory

**Students are expected to attend all laboratory sessions.** This is a synchronous portion of the course. There are two types of laboratory experiments. One type is an on-line dry lab. These usually consist of an on-line simulation or video you will watch asynchronously with some data to work with for calculations. The second type of lab experiment will be done using a take home laboratory kit supplied to you for free. These laboratory kits are from HOL Science and we will be using the HOL platform starting in week 3. If lab time allows, we will try and perform the HOL experiments together via Zoom, but you will likely be able to work on these lab experiments at least in part asynchronously.

Generally you will have 1 week to complete each lab assignment starting from the time it is introduced during lab.

**Make certain to look at the posted lab material before coming to the Zoom lab session so you are not lost!**

**If you have a medical emergency or some other emergency that prevents you from attending lab, you will be asked to supply written documentation in order for the absence to be excused. Be sure to contact the instructor as soon as possible if you miss a lab session.**

**Each lab experiment is worth 20 points and your lowest lab score will be dropped. No early, late or make-up labs are accepted.**

## Laboratory Exam

There is one laboratory exam for this course worth 70 points. The laboratory exam will be given during your regularly assigned laboratory sessions at the end of the quarter. **No early, late or make-up lab exams will be given and all lab exam scores will count toward your overall course grade.**

## Tentative Lecture and Exam Schedule

Date	TUESDAY	Date	THURSDAY
1/5	Lecture: Chapter 5 and Introduction to Chem101 Lab: Intro to Lab	1/7	Lecture: Chapter 5 Lab: Molar Volume of a Gas <b>Complete Academic Integrity Contract</b> <b>Quiz 1 due 1/10</b>
1/12	Lecture: Chapter 5 Lab: Lewis theory	1/14	Lecture: Chapter 12 Lab: Molecular Geometry/VSEPR <b>Quiz 2 due 1/17</b>
1/19	Lecture: Chapter 12 Lab: HOL Registration and Introduction	1/21	Lecture: Chapter 12 Lab: HOL Lessons Getting Started and Lab Safety <b>Quiz 3 due 1/24</b>
1/26	Lecture: Chapter 12/Chapter 16 Lab: HOL Boyle's Law	1/28	Lecture: <b>Exam 1 (Chapters 8, 12)</b> Lab: HOL Boyle's Law <b>Quiz 4 due 1/31</b>
2/2	Lecture: Chapter 16 Lab: HOL Beer's Law	2/4	Lecture: Chapter 16 Lab: HOL Beer's Law <b>Quiz 5 due 2/7</b>
2/9	Lecture: Chapter 16 Lab: HOL Reaction Order and Rate Law	2/11	Lecture: Chapter 17 Lab: HOL Reaction Order and Rate Law <b>Quiz 6 due 2/14</b>
2/16	Lecture: Chapter 17 Lab: Kc experiment	2/18	Lecture: Chapter 17 Lab: Kc Experiment <b>Quiz 7 due 2/21</b>
2/23	Lecture: <b>Exam 2 (Chapters 16-17)</b> Lab: HOL Equilibrium and Le Chatelier's Principle	2/25	Lecture: Chapter 18 Lab: HOL Equilibrium and Le Chatelier's Principle <b>Quiz 8 due 2/28</b>
3/2	Lecture: Chapter 18 Lab: Ka of a Weak Acid	3/4	Lecture: Chapter 18 Lab: Ka of a Weak Acid <b>Quiz 9 due 3/7</b>
3/9	Lecture: Chapter 18 Lab: Calcium Hydroxide	3/11	Lecture: Chapter 20 Lab: Calcium Hydroxide <b>Quiz 10 due 3/14</b>
3/16	Lecture: Chapter 20 Lab: Chapter 20	3/18	<b>Exam 3 (Chapters 18, 20)</b> <b>Lab Final</b> <b>Quiz 11 due 3/21</b>
3/23	No Lab or Lecture	3/25	<b>Final Exam, Thursday from 9:15 AM to 11:15 AM</b>

### \*Tentative Exam Dates:

Be aware that Lecture exam and assignment dates may change depending on the timing of the material presented in lecture. The final exam date is set by the college and will not change.

## Instructions for Converting Photos to pdf Files

There are numerous apps that allow you to convert a photo to a pdf file easily. Some are free and some are not. Pdf files are what you will be uploading to Canvas for the pre-lab assignments and laboratory reports. You may choose any app that fits your budget and privacy level. As with any App some collect information that you may or may not be willing to share. Examples of apps are **Adobe Scan, Cam Scanner, GeniusScan** etc.

If you have an **iPhone**, the **Notes App** will allow you to create pdf files.

- Launch the Notes App.
- Tap the New Note button in the lower right.
- Hit the photo icon.
- Choose Scan Documents from the list of pop ups.
- Line up the document you wish to scan in the view.
- You'll see a yellow rectangle over the document, and if you hold your iPhone or iPad steady, it should take the photo automatically. If not, you can press the shutter button.
- The scan will move down to the lower left; you can tap it to see how it came out, and then press **Done or Retake** at the top of the screen. To make a single multi-page document, just keep taking scans of additional pages. When you're done, press the Save button in the lower-right, which will show how many pages you've scanned.
- You can then press the share button in the upper left corner and email the pdf file or choose the Save to File and upload the document to Canvas by using the Canvas App.

**Student Learning Outcome(s):**

\*Evaluate the principles of molecular kinetics.

\*Apply principles of chemical equilibrium to chemical reactions.

\*Apply the second and third laws of thermodynamics to chemical reactions.