

## CHEM 30A Syllabus

<b>Instructor:</b> Rose Wang <b>Lab:</b> M 11:30-2:20 pm in Room SC 2204 for sec. 23 <b>Lecture:</b> MW 2:30 – 4:20 pm in Room S34 <b>Lab:</b> W 11:30-2:20 pm in Room SC 2204 for sec. 24 <b>Office Hours:</b> MW 11:05 – 11:30 in SC 1206 MW 4:20 – 4:45 in S34 <b>Email:</b> <a href="mailto:wangxiao@fhda.edu">wangxiao@fhda.edu</a>	<b>Course Website:</b> Section 23: <a href="#">Sp26 CHEM D030A Intro Gen, Org And Biochem I 23 Wang 44859</a> <b>Course Website:</b> Section 24: <a href="#">Sp26 CHEM D030A Intro Gen, Org And Biochem I 24 Wang 46107</a>
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**This syllabus is a contract, please read it carefully.** Email is reserved for contacting me regarding absences, scheduling, etc. not for office hours.

◆ **You must read Chemistry Safety Contract thoroughly and CAREFULLY in module 1, print it out, sign the sheet, and submit it to Canvas during the first week (due on Sat. for 2 pts). Due date is 4/11/26 before 11:30 pm.**

◆ **We will watch the safety videos together during the lab time of the first week. According to the safety videos and safety training during the first week, you need to finish the safety quiz on Canvas in module 1 for 100% to pass. If you cannot pass it with 100% first time, you need to review the safety videos and safety rules again to try another time. You can try 3 times to get 100 % right. The safety quiz will be 20 pts due on 4/18/26. But before 4/11/26 11:30pm, please finish first try for the safety quiz.**

### COURSE DESCRIPTION:

This is a two-part course to be taken in sequence by students entering the allied health fields. The focus of the first part of this course is an introduction to general chemistry with a discussion of various measurement tools, followed by a discussion of energy and matter, and the discovery of an atom. The next set of topics will cover an introduction to elements, compounds, and types of bonding in compounds, followed by various types of chemical reactions and stoichiometric calculations based on chemical equations. The course will discuss the properties of gases and solutions and concludes with a discussion of acid-base chemistry and nuclear chemistry.

**PREREQUISITE:** Intermediate algebra or equivalent (or higher), or appropriate placement beyond intermediate algebra.

### REQUIRED MATERIALS:

1. Text:

a) **Open Textbook Library by David Ball et al.:**

<https://open.umn.edu/opentextbooks/textbooks/the-basics-of-general-organic-and-biological-chemistry> (Online and pdf versions available) - No cost for this.

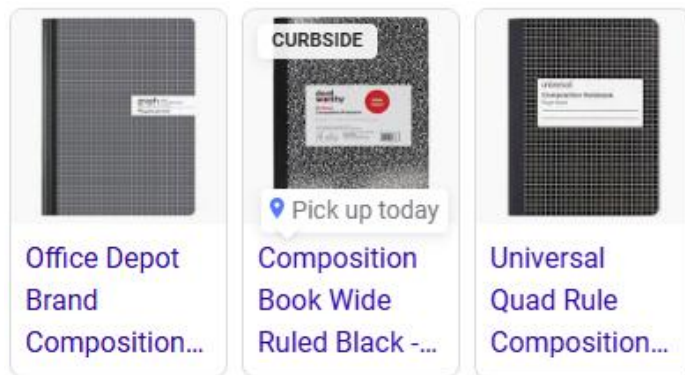
b) **Free Online Text: McMurry's Fundamentals of General Organic and Biological Chemistry**

[https://chem.libretexts.org/Bookshelves/Introductory\\_Chemistry/Fundamentals\\_of\\_General\\_Organic\\_and\\_Biological\\_Chemistry\\_\(LibreTexts\)](https://chem.libretexts.org/Bookshelves/Introductory_Chemistry/Fundamentals_of_General_Organic_and_Biological_Chemistry_(LibreTexts)) - No cost for this.

c) **If you like to use a paper textbook, you can buy any used editions of used book: McMurry/Castellation; Fundamentals of General, Organic and Biological Chemistry, such as 6<sup>th</sup> Ed, 7<sup>th</sup> Ed, etc. – used ed., less cost.**

2. **Lab Manual:** [lab experiments will be posted on Canvas.](#) **You need to print and bring a hard copy to the lab.**

3. **A scientific calculator** that has at least log and exponential functions is required (~ \$10 to 25). Graphing calculators could not be used during the exams, but could be used during the class and lab.
4. **Safety goggles (not glasses) or Visorgogs®.** You can buy goggles in bookstore. Lab stockroom may provide some goggles for students who forget bring your own ones. If you borrow goggles from our lab room, you MUST return them at the end of the lab! Also, you need to be responsible to clean the goggles before you use.
5. A lab notebook **with pages numbered** (you could number the page by yourself in ink before you use the notebook. It means no tear any pages during the quarter! Also, you have to write prelab and record your lab results in notebook each time. And before you leave the lab, please let me sign it.)



## REGISTRATION AND DROPPING 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.

**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.

*Students on the wait list may attend lecture and lab training until the add deadline (04/19) - but could not attend wet labs (this quarter no wet labs during the first and 2<sup>nd</sup> weeks.)*

***Students who are waiting to add need to be sure to attend the class and lab training at the beginning. When I have spaces, I add those students who attend the lectures and lab training.***

*For any students who do not attend the first two weeks' of class and lab, I am required by contract to drop you from the course.*

### Overall Course Grade

	pts	%	
3 Lecture Exams (3x150-150)	300	30	Drop the lowest one
Final	200	20	
Homework (11x12-12)	120	12	Drop the lowest one
Canvas Discussion (5x6)	30	3	
Pop Quizzes (4x15)	60	6.0	Drop the lowest one
Prelab* (6x9)	54	5.4	
Lab Report (18x9-18)	144	14.4	Drop the lowest one
Lab Final	60	6	
Sig. Sheet of Contract	2	0.2	
Safety Quiz	20	2	
Subjective lab & lecture	10	1	
	1000	100%	

**\*You must do all prelab to get access to the lab.**

**A letter grade will be assigned according to the following percentage scale and categories:**

A+ ≥98%	A ≥92%	A- ≥89%	B+ ≥85 %	B ≥81%	B- ≥78%
C+ ≥75%	C ≥67%	D+ ≥64%	D ≥60%	D- ≥56%	F <56%

1. Precise cut-offs may differ by  $\pm 1\%$  of the above listed numbers, and are determined only after all points for lecture and laboratory have been totaled.
2. **You must take the final exam to pass the course.** If you miss the final exam scheduled for this course, then you will not receive an overall passing grade. There are no make-up exams for the final exam.
3. If your average lab percent is less than 55% you WILL NOT receive a passing grade.
4. If your average exam percent is less than 55% you may NOT receive a passing grade.
5. **In order to be fair to all students, advance or make-up exams will NOT be given.**
6. A grade of F is also given for cheating or for being disruptive during the lectures or labs.
7. *I will drop the lowest midterm to encourage you to get better grades 😊.*
8. **Incomplete grades** are only given for extenuating circumstances; for example, verified illness or legitimate emergencies. If an incomplete is given all exams and lab work prior to the incomplete are still counted in your grade, only material that has not yet been completed can be made-up in the future. **You must be passing the course to receive an incomplete grade.**

Many pop quizzes will be given during the quarter. **Pop quizzes could be distributed at any time.** Usually I may distribute the pop quizzes at the beginning of the class (please take only one copy of pop quiz each time for yourself) and we may have time to finish them at end of the class through students' discussions and asking questions. **Pop quizzes are open book, open notes, and open discussions with limited time.** Pop quiz time is about 10 minutes. **Your pop quizzes will be graded immediately at the end of the class. You have to stay in the class all the time and solve the quiz questions correctly to get the full scores for pop quizzes.** Pop quizzes will help you to understand the materials just learned in lecture and lab, also they will help students to have good participation in the class, thus to help you pass this difficult course with good grades. **Besides 6.0% scheduled pop quiz scores, I'll distribute around 0.5% extra credits in pop quizzes.** Lowest two pop quiz will be dropped during the quarter. I may distribute around **2.5-3% (25 to 30 pts) extra credit in exams as well.**

**Please note that the instructor will NOT provide extra credit work at the end of the semester for students who are doing poorly. Thus, you need to perform well in your tests, quizzes, and lab reports, etc.** If you follow all rules, have good participation (means attend all lecture and lab, finish all prelabs, lab reports, assigned homework and discussions, etc.) and your score is within 1.0% lower than the cuts, I'll give those students 1.0% consideration (just in my excel sheet, not add on Canvas,) when I assign the grades😊. This may help some students to increase a grade if needed that 1.0% after final. Also, this encourages students stay in lecture, so can improve passing rate positively since this course is difficult!

## ATTENDANCE:

This is a fast-paced and challenging course, attending the class and lab regularly will help you to understand the material and pass the class. **Students are expected to attend all lectures and lab sessions. You are responsible for all the material covered in this course.** *You should also exchange contact information with a few classmates who you can contact regarding material missed if you must be absent. Since this is an experimental course, your presence in the laboratory is essential for understanding of the materials covered.* **Missed lab work WILL NOT be excused nor made up.** You may NOT receive a passing grade if **more than 1** unexcused lab absence is counted. Allowances may be made for emergencies. **Please show me the documents as the evidence of an emergency. In order to help you to pass this difficult course, I will check**

**the attendance regularly to help you stay with this difficult course. Another reason for checking attendance is for 1.0% increment if needed. With good participation, the passing rate and students' grades would be higher. We will try to achieve good results as a whole group!**

## EXAMS AND IMPORTANT DATES:

There will be three midterms during the lecture times and a final. Also, we have ONE lab final. Please see all dates and times in the schedule on the second last page and/or in "Important Dates" section of syllabus. You need to bring a picture ID to all exams. Seats will be assigned during the lecture and lab exams and final. For all exams and final, please bring scantrons.

<b>4/6 (Mon)</b>	Class Begin
<b>4/19 (Mon)</b>	Last Day to drop for Refunds and without a grade. If you stop attending during this time I may drop you. But it is better you drop the class.
<b>5/29 (Fri)</b>	Last day to drop the class with a "W" grade. After midnight on this date, you CANNOT receive a "W", you WILL receive a letter grade.

### LECTURE AND LAB EXAM DATES:

Lecture Exam	Date/Time	Coverage***
Exam 1 (Week 5, Mon.)	5/4 during Lecture Time	Ch-1,2,3,4
Exam 2 (Week 8, Wed.)	5/27 during Lecture Time	Ch-5,6,7
Exam 3 (Week 10, Wed.)	6/10 during Lecture Time	Ch-8,9
Lab Final (Week 11, lab time)	After check-out, 6/15 (sec 23), 6/17 (sec 24) in Lab Room	All Labs
Final Exam (Week 12, Wed.)	6/24 From 1:45 am to 3:45 pm in Lecture Room	Comprehensive for all chapters we have learned (ch-1 to 11)

\*\*\*Note: Exact Chapter and Sections Coverage may vary depending on pacing of course \*\*\*

**I reserves the right to change exam dates as well as modify the grade scale at any point during the quarter. In order to give students enough time to take the exam, I will assign seats before each exam, thus a reasonable extension of test time could be given.**

## HOMWORK:

We will use Aktiv homework system. All of you need to purchase access codes through online or in the bookstore. Just need to buy Aktiv code, no need to buy text. In Aktiv, they provide open text together with homework. **12% of your grade will be based on homework. I will send a file to you about how to activate Aktiv THROUGH CANVAS. It is very important to know that YOU HAVE TO REGISTER AKTIV THROUGH OUR CANVAS! Please DO NOT register Aktiv through their website! But you need to buy Aktiv homework code.**

**Please notice that in Canvas, the homework due dates are already extended to the exam dates (due times are around 10:30 am of exam dates before the exams). The late work on Canvas (such as homework, prelab, etc.) is 15% a day deduction. Late 1 second and 11 hours all counts as late for one day.**

- The lowest chapter of homework score will be dropped.
- Please do homework as soon as we cover the materials in class though the due dates are extended.

- Please also go over all examples in textbook and my pdf lecture notes.
- Keep in mind that if you do not work the problems it is difficult for a student to be successful in the course and exams.

## ACADEMIC INTEGRITY:

By enrolling in classes at De Anza College, you are agreeing to the academic integrity policy and are held to all standards. Specifics can be found at [Academic Integrity](#) and [Featured - 12345 El Monte Road | Los Altos Hills, CA 94022 | BoardDocs® Plus](#)

Cheating during an exam/quiz or copying/using work other than your own for assignments will result in a 0 for the entire assignment, regardless of what percentage of the work is from cheating.

Worse than a 0 on an exam, I am required to report such incidents to the disciplinary committee, who will make a note of the incident on your transcript, which then becomes visible to 4 year colleges upon reviewing your transfer application.

### Academic dishonesty includes but not limited to:

- Plagiarism (copying or allowing someone to copy) lab exercises or reports.
- During an exam, communicating or transferring information to another student, casual glances at your neighbor's paper, providing or receiving assistance, and/or consulting unauthorized materials. To avoid these, I will assign the seats. The main purpose to assigning seats is to give students more test times.
- Having another person complete and submit work in your name.
- Lying to an instructor to improve your grade.
- Altering a graded work after it has been returned and then submitting the work for regrading.

## RESOURCES:

1. **Your peers!** It's been shown that working in groups is a GREAT way to process material. Helping others to learn is a wonderful way to solidify your own understanding. Asking each other questions, explaining difficult concepts and working together on the practice problems will all help immensely! I **HIGHLY** recommended forming some sort of study group – try to exchange contact information and meet for a bit each week to synthesize material.
2. **Tutoring:** De Anza's tutorial center is currently closed, but online services are available. Check at <https://www.deanza.edu/studentssuccess/onlinetutoring/>. Other campus services can be found as part of the student success center as well: <http://www.deanza.edu/studentssuccess>
3. **Disability Support Program and Services:** DSPS can help you get the right tools to succeed. Please check their website for current services and assistance: <http://www.deanza.edu/dsps/>
4. **Office Hours:** Come by to talk about lecture, homework, textbook material during the office hours. I put my office hour before lecture in SC1206 then to lecture room (we will see lecture room availability at the beginning of the quarter) to be sure that students could reach me easily.
5. **Textbook** – If you don't have textbook, please check if a copy of the textbook are on reserve at the library. But I recommend you to buy any version (early version would be cheaper) of used textbook.
6. **Discussions in Canvas** – During the Covid time I opened discussions (with scores) for students before each lecture exam. The past survey results showed that students like them. So I put 3% discussions in grade this quarter. Hope you will like them.

## CLASS RULES AND REGULATIONS:

- **Arrive on time.** I will help you to be on time by distributing the pop quiz at the beginning of the lecture.

- Turn off or turn to silent mode all cell phones and electronic messaging devices. DO NOT talk on the phone or receive/transmit text messages during lecture or lab.
- Follow all written and verbal instructions.
- Laptop computers may be used during class ONLY for class business. For instance, you may use your laptop to view and/or take class notes, but please do not disrupt/distract your fellow classmates by using your laptop during class for other business and/or activities that do not pertain to the class. The instructor and the school are not liable for any damage to electronic equipment used during class.
- I will drop any student who, in my judgment, is habitually disruptive or disrespectful. Repetitive disruptive or rude behavior will be cause for dismissal from the class.

**STUDY STRATEGIES:** This is a very difficult and fast-paced class. How could you be successful?

**Success in the course = practice, practice, practice!**

1. **You should study outside of class AT LEAST 10 hours per week** for a 5-unit class to keep up with your reading, homework exercises, notebook preparation, lab reports, etc. Be sure to make the study time count by removing distractions—for instance, do not watch television or carry on conversations while studying.
2. Read (or at the least skim) the corresponding chapter in the text BEFORE lecture. Keep the questions in mind and pay attention during the lecture time so you may get the answers for the questions that previously you don't understand.
3. I will post my lecture pdf file for each chapter right after we finish the chapter discussions in the class for you to study. Hope it will help. Before I post my lecture notes, you can use the MC PPT in last Module.
4. Don't fall behind! Keep up with the reading and the recommended textbook problems! My strategy to help you is keeping a pop quiz each time.
5. **Attend the class and lab on time so you have chance to take the pop quizzes.** It's quite hard to catch up if you miss the lectures and labs.
6. Take scratch paper each time for the lecture. I hope you could participate in the problem solving actively in class. Frequently sketching the problem solving process on the scratch paper would be a good habit.
7. Before each exam, I open a discussion forum in Canvas for 6 pts. 3-pt is for you to post a difficult question, and another 3-pt is to answer another student's question with explanations. So students have chance to help each other.
8. Ask questions! Come to office hours, tutoring, or form a study group to get them answered! It's YOUR responsibility to **take charge of your learning**; there are many resources to help you succeed!

Chemistry 30A is considered to be a very difficult course. You have to put much time to study really hard to pass the course or to get a good grade. I wish you have good luck with Chem. 30A this quarter!

## Chem 30A Lab Syllabus

### REQUIRED LABORATORY MATERIALS

- **Lab Manual:** I already put all labs on Canvas. No need to buy lab manual. **But you need to print and bring a hard copy to the lab.**
- **Laboratory Safety Goggles**
- **lab notebook (with pages numbered in ink by your hand is fine)**

### **PRELAB (NOTEBOOK PREPARATION):**

**BEFORE COMING TO A LAB MEETING, complete the following entries in your notebook in PEN:**

- The Date and Your Name
- Title
- Introduction to the experiment (summarize the principles and reading of the lab materials)
- List of Reagents and Supplies
- Safety (Personal Safety and Hazardous information of chemicals)
- Procedure
- Empty Data Table (if not include this, you can do it during the lab recording time)

[For the details, please see page 9 for “How to Keep a Lab Notebook”](#)

**Submit prelab (notebook preparation) to Canvas BEFORE 10:30 am on the lab days!**

**Prelab is safety related item. It is important to finish prelab BEFORE the deadline! If you do not do the prelab, you will not allowed to perform the lab work! You must do all prelabs on time!**

## LABORATORY LECTURE

The beginning of each laboratory session is designated as a laboratory lecture period for which you **must be on time** in order to perform the scheduled experiment. The instructor will use this lecture period to outline important details of the procedure, overview theory and calculations, and discuss common safety hazards and proper chemical disposal techniques. *Being late for the beginning of lab will result in a penalty to the grade for that lab assignment. **If you come to the lab 15 minutes late, we cannot allow you to perform the experiment due to safety concerns. Your lab score for the lab will be 0.***

## LAB ATTENDANCE

Attendance in the laboratory is **mandatory**. I will be taking roll in the lab each time at beginning. And I will **sign off YOUR NOTEBOOK before you leave the lab.** If you miss one lab time, you will lose that portion of score. You may not have chance to understand the materials if **more than 1 absence** is counted. I may allow for emergencies and other complications in life. **You need to submit the document for verification.** **Additionally, do not plan on leaving lab early. Labs will regularly take the total amount of time allotted.** **If you miss more than 3 lab times (whether excused or unexcused) you must either withdraw from the course (if it is before the withdraw deadline or request an extended withdraw) or receive an F in the course. This is a lab course and lab attendance is required. Any absences must have supporting written documentation or notices from Health Services, Police Reports, etc.**

## TARDINESS:

Students have to be on time in the lab for full lab credit. You are counted as tardy if you arrive more than 5 minutes late. Each tardy will deduct 2 points from your prelab. **If you are more than 15 minutes late, you will not be allowed to perform the experiment for that day, and will be counted as absence.**

## LAB SAFETY

**Being safe in the lab is a top priority.** The importance of safety in the laboratory will be focused upon during the first lab time. **Students who are absent for this essential lab period will be dropped from the course.** During the quarter, any unsafe behavior, intentional or not, will be noted and may be cause for dismissal from the course. For your protection, **safety goggles (not safety glasses) must be worn AT ALL TIMES as long as one student is still doing the lab and have chemicals in the lab bench.** One or two warnings will be issued to any student that is observed wearing their goggles on their forehead, hanging them around their neck, etc. instead of wearing over their eyes. If the warnings are disregarded or ignored

repeatedly, points will be deducted or expulsion from the lab may result with zero credit. Those students with prescription glasses will be required to wear safety goggles over their prescription glasses. **No food and no drink in the lab room. Please put your food and drink outside the lab room. When you come to the lab room (no matter wet lab or dry lab), please wear lab attire! During the lab lecture and lab time, please DO NOT USE CELLPHONE unless it is needed for lab related things.**

**You need to finish the first module about safety training and read our Department safety rules and housekeeping rules. You need to upload student signature sheet to canvas during the first week and you have to finish safety quiz on Canvas with 100% pass to stay in the class (you have 3 times to try to answer all questions right.) Here are websites for safety videos (also listed in module 1.) We will watch safety videos together. You can watch them again before the safety quiz: [College Lab Safety Videos - Safety Videos & Webinars - Education & Training - Lab Safety - ACS Center](#)**

## LABORATORY GRADE

Your laboratory work will comprise around 28% of your overall grade in this course indicated below:

	pts	%	
Prelab in notebook (7x8)	54	5.4	
Lab Report (20x8-20)	144	14.4	Drop the lowest one
Lab Exam	60	6	
Sig. Sheet of Contract	2	0.2	
Safety Quiz	20	2	
Total	280	28.0	

You will be deducted 2 points for every tardy to lab section (5 to 15 minutes late). More than 15 minutes late will be count as absence! **If you fail the laboratory portion of this course, you will not receive an overall passing grade.**

## LAB REPORTS:

Most lab reports will be due **on the same day before you leave** since you can get help from each other and from me. **If time is not permit, you can submit it in lecture next teaching day** (such as if you cannot give me your report on Monday, you need to submit it on Wed. during my office hour; if your lab is Wed. and you cannot finish lab report, you need to submit it to me on Monday.) There will be **15% deduction for each late day.** You will receive a grade of zero for lab reports that are more than 7 days late. A laboratory report is considered late if not received **by me in person** on the day and time it is due. Although for most experiments you will be working with one partner, **everyone must turn your own report each time.** You are encouraged to discuss lab questions and results with your partner and other group students to enhance the understanding of the experiments. Please don't copy other students' report and please don't use your lab partner's excel graph, you need to make your own graph.

**DURING THE LAB: You need to continue notebook recording in ink!**

- During the lab lecture, record some background notes and/or principles in your notebook.
- Record your lab data and observations **directly to notebook**, then transfer to your report page.

**Points will be deducted if you forget to bring your notebook to the lab, if you write in pencil for the lab results, or if you record data on scratch paper.**

**Before you leave the lab, you need to turn your lab report and let me sign your notebook. The notebook score be part of the lab report.**

**So, your notebook should be in pen, but your lab report need to be solve in printed out report paper in pen or pencil (means pencil is OK)**

Please put your lab partner's name under your name in your report, so I could grade them together. Each student needs to turn his/her report to me on time.

## LAB EXAM

**There is one laboratory exam for this course worth 60 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.**

## CHEMICAL DISPOSAL

As a concern for the environment and to follow county, state and federal law, proper chemical disposal is essential. Check with the instructor if you have any questions. A student who repeatedly fails to comply with directed safety and/or chemical disposal procedures will be deducted the score in the lab report, and may be dropped from this course.

## CLEAN UP

You must clean up your lab area and put the equipment back at their storage locations after the experiment. If you spilled a bit of chemicals at the reagent area, you **must** clean it up immediately, and put the chemicals into the waste bottle. If you do not do clean up, your lab performance grade will be low.

If you have a large reagent spill, you need to report to your instructor to get help to do clean up.

## CHECK-OUT

Check-out occurs at the last lab session. If a student drops the course, he/she **must check out during his/her regular laboratory section meeting with his/her lab instructor (see lab schedule.)**

**Good Luck with the Chem 30A Labs and have fun!**

# How to Keep a Lab Notebook

1. Lab notebooks are bound (pages tied and glued together so that they are not easily removed. They are also numbered on every page, so again it is difficult to add or remove pages without this being obvious.
2. **All notebooks records are kept in ink.** Mistakes in a notebook should be lined out with a single line, never covered with Whiteout or similar products, nor scribbled over to obscure the original notation(s). This generates a permanent non-changeable record of the work done. This is crucial! If you ever work in a laboratory, you must NEVER erase, whiteout, cover over, or remove any mistakes or data. If you did so, this would be classified as data falsification and you could be fired, as well as face fines and criminal prosecution.
3. All notebook pages must be dated and should also have the title of the experiment being carried out on it.
4. **All notebooks should have a table of contents** for the work done. The traditional place for a table of contents is in the front of the book. Many notebooks will include a space for a table of contents. If yours doesn't, **leave the first 3 pages blank** and construct your own.
5. **Since we just start to learn how to keep lab note book. For this quarter we need to keep the following sections: Title, Purpose, Chemical/Safety Equipment, Procedure, and Data.**  
All other sections, including Graphs and Tables, Discussion/Errors, Post-lab Questions need to be done on the printed out report pages.

**NOTEBOOK PREPARATION includes:**

**Purpose:** This is a sentence or two on why you are conducting the lab: what are the objectives. (*What you want to do/prove*) **This is part of the pre-lab write up.**

**Introduction/Background:** This is a brief explanation of the theory and practice the lab is based on. It demonstrates your understanding of what we are going and what we will learn from it. It should be 1-2 paragraphs long. (*What are you basing this experiment on*) **This is part of the pre-lab write up**

**Chemicals/Equipment:** All equipment & chemicals are listed here with basic chemical safety info (including *basic hazard info* like is it flammable, corrosive, etc; *handling and safety precautions* like use only in the hood or keep away from open flames; and *emergency/first aid info*) on all the chemicals being used. Read the procedure to get all the chemicals & equipment used. This can be a table or a paragraph. (*What you need to think about as you're doing the experiment*) **This is part of the pre-lab write up.**

**Safety:** The personal safety including wearing goggles and suitable lab attire, and some lab needs to wear gloves, etc.

**Procedure:** Reference the procedure in your lab notebook and then write down any changes to the procedure in enough detail so others reading the notebook could repeat the lab with the changes. (*What you did.*) **This is part of the pre-lab write up.**

## Department Lab Schedule

LAB MEETS ONCE A WEEK			
WEEK OF	WEEK	MONDAY	WEDNESDAY
4/6/2026	1	CHECK IN	CHECK IN
4/13/2026	2	DENSITY	DENSITY
4/20/2026	3	NOMENCLATURE + STRUCTURES	NOMENCLATURE + STRUCTURES
4/27/2026	4	SAND/SALT SEPARATION	SAND/SALT SEPARATION
5/4/2026	5	CHEMICAL REACTIONS	CHEMICAL REACTIONS
5/11/2026	6	YIELD OF SODIUM CARBONATE	YIELD OF SODIUM CARBONATE
5/18/2026	7	SYNTHESIS OF ALUM	SYNTHESIS OF ALUM
5/25/2026	8	MEMORIAL DAY	TBA
6/1/2026	9	GAS FORMING REACTION	GAS FORMING REACTION
6/8/2026	10	CITRIC ACID TITRATION	CITRIC ACID TITRATION
6/15/2026	11	CHECK OUT	CHECK OUT
6/22/2026	12	FINALS	FINALS

- [Most lab reports are due at the end of the lab. Some exceptions will be announced.](#)
- [Prelab is safety related item. It is important to finish prelab before the deadline. If you do not do the prelab, you will not allowed to perform the lab work!](#)

## TENTATIVE LECTURE AND LAB SCHEDULE

Schedule is subject to change. I will announce the change in the class and/or in canvas announcement.

Date	Lecture (M & W)	Mon. or Wed. Labs
<b>Wk 1:</b> 4/6 & 4/8	<ul style="list-style-type: none"> <li>● Discussion of Syllabus</li> <li>● <b>Ch-1:</b> Matter and Measurements</li> <li>● <b>Ch-2:</b> Elements, Atoms &amp; Periodic Table</li> <li>● <b>Pop quiz 1</b>(ch-1)</li> </ul>	<b>Mandatory</b> <ul style="list-style-type: none"> <li>● Introduction /Safety Video/ Safety</li> <li>● Lab notebook ● <b>Check-in</b></li> <li><b>HW Ch-1 Due on Sat.*</b></li> </ul>
<b>Wk 2</b> 4/13 & 4/15	<ul style="list-style-type: none"> <li>● <b>Ch-2:</b> Continued</li> <li>● <b>Ch-3 &amp; 4:</b> Ionic and Molecular Compounds</li> <li>● <b>Pop quiz 2 &amp; 3</b> (ch-1 &amp; 2)</li> </ul>	<b>Lab 1:</b> Density <ul style="list-style-type: none"> <li>● <b>Prelab due on Canvas due BEFORE 11 am</b></li> <li><b>HW Ch-2 Due on Sat.</b></li> </ul>
<u>4/19, Sunday</u>	<u>Last Day for Drops w/ Refund and without W</u>	
<b>Wk 3:</b> 4/20 & 4/22	<ul style="list-style-type: none"> <li>● <b>Ch-3 &amp; 4:</b> continued</li> <li>● <b>Finish Lab 3 if extra time is needed for this week's lab</b></li> <li>● <b>Pop quiz 4 &amp; 5</b> (ch-2, 3, 4)</li> </ul>	<ul style="list-style-type: none"> <li>● <b>Lab 2:</b> Inorganic Nomenclature</li> <li>● <b>Lab 3:</b> Structures of Molecular Compounds</li> <li>● <b>Two Prelabs due on Canvas on same day</b></li> <li><b>HW Ch-3,4 Due on Sat.</b></li> </ul>
<b>Wk 4:</b> 4/27 & 4/29	<ul style="list-style-type: none"> <li>● <b>Ch-5:</b> Chemical Reactions</li> <li>● <b>Ch-6:</b> Quantities in Chemical Reactions</li> <li>● <b>Pop quiz 6 &amp; 7</b> (ch-3,4 )</li> </ul>	<b>Lab 4:</b> Separation of Sand & Salt Mixture <ul style="list-style-type: none"> <li>● <b>Prelab due on Canvas</b></li> <li><b>HW Ch-5 Due on Sat.</b></li> </ul>
<b>Wk 5:</b> 5/4 & 5/6	<ul style="list-style-type: none"> <li>● <b>Exam 1 on Mon. (Ch-1,2,3,4)</b></li> <li>● <b>Ch-6:</b> Continued</li> <li>● <b>Pop quiz 8</b> (ch-6)</li> </ul>	<ul style="list-style-type: none"> <li>● <b>Lab 5:</b> Chemical Reactions</li> <li>● <b>Prelab due on Canvas</b></li> <li><b>HW Ch-6 Due on Sat.</b></li> </ul>
<b>Wk 6:</b> 5/11 & 5/13	<ul style="list-style-type: none"> <li>● <b>Ch-7:</b> Energy and Chemical Process</li> <li>● <b>Pop quiz 9 &amp; 10</b> (ch-5,7)</li> </ul>	<b>Lab 6:</b> Percent Yield of Sodium Carbonate <ul style="list-style-type: none"> <li>● <b>Prelab due on Canvas</b></li> <li><b>HW Ch-7 Due on Sat.</b></li> </ul>
<b>Wk 7:</b> 5/18 & 5/20	<ul style="list-style-type: none"> <li>● <b>Ch-8:</b> Solids, Liquids, and Gases</li> <li>● <b>Pop quiz 11 &amp; 12</b> (Ch-8)</li> </ul>	<ul style="list-style-type: none"> <li>● <b>Lab 7:</b> Synthesis of Alum</li> <li>● <b>Prelab due on Canvas</b></li> <li><b>HW Ch-8 Due on Sat.</b></li> </ul>
<b>Wk 8:</b> 5/25 & 5/27	<ul style="list-style-type: none"> <li>● <b>Memorial Day</b></li> <li>● <b>Exam 2 on Wed. (Ch-5,6,7)</b></li> </ul>	<ul style="list-style-type: none"> <li>● <b>Memorial Day on Monday</b></li> <li>● <b>TBA on Wed.</b></li> </ul>
<u>5/29, Fri.</u>	<u>Last Day for Drops with W</u>	
<b>Wk 9:</b> 6/1 & 6/3	<ul style="list-style-type: none"> <li>● <b>Ch-9:</b> Solution</li> <li>● <b>Pop quiz 13 &amp; 14</b></li> </ul>	<ul style="list-style-type: none"> <li>● <b>Lab 8:</b> Gas Forming Reaction</li> <li>● <b>Prelab due on Canvas</b></li> <li><b>HW Ch-9 Due on Sat.</b></li> </ul>
<b>Wk 10:</b> 6/8 & 6/10	<ul style="list-style-type: none"> <li>● <b>Ch-10:</b> Acids/Bases</li> <li>● <b>Pop quiz 15</b> (ch-)</li> <li>● <b>Exam 3 –Wed (Ch-8,9)</b></li> </ul>	<b>Lab 9:</b> Citric Acid Titration <ul style="list-style-type: none"> <li>● <b>Prelab due on Canvas</b></li> <li>● <b>Check-Out</b></li> </ul>
<b>Wk 11:</b> 6/15 & 6/17	<ul style="list-style-type: none"> <li>● <b>Ch-10:</b> continued</li> <li>● <b>Ch-11:</b> Nuclear Chemistry</li> <li><b>Pop quiz 16, 17</b> (ch-)</li> </ul>	<ul style="list-style-type: none"> <li>● <b>Check-Out</b> ● <b>Lab Final</b></li> <li><b>HW Ch-10,11 Due on Sat.</b></li> </ul>
<b>Wk 12:</b> 6/22 & 6/24	<ul style="list-style-type: none"> <li>● <b>Monday: TBA</b> ● <b>Wed: Cumulative Final Exam on Wed. 1:45 am to 3:45 pm (45 minutes earlier than our lecture time)</b></li> </ul>	Final Week , no lab

\*All online homework due times are already postponed to the test dates. No further postpone will be given.

**STUDENT LEARNING OUTCOMES:**

- Solve stoichiometric problems by applying appropriate molar relationships.
- Identify the differences between elements and compounds and describe the chemical bonding in compounds- ionics vs. covalent.

**OFFICE HOURS:**

MW 11:05 am – 12:30 pm in SC 1206 first then to SC 2204.

MW 4:20 – 4:45 pm in S 34

**Student Learning Outcome(s):**

- Solve stoichiometric problems by applying appropriate molar relationships.
- Identify the differences between elements and compounds and describe the chemical bonding in compounds- ionics vs. covalent.

**Office Hours:**

M,W 11:05 AM - 11:30 AM

M,W 4:20 PM - 4:45 PM

SC1206 then SC2204

S34