



CUPERTINO

Course Syllabus

32199, Winter 2026

Tuesdays & Thursdays 4:30 PM - 5:45 PM in MLC 103 (Lecture)
and

Mondays & Wednesdays 11:30 AM - 2:20 PM in SC 2202 (Lab)

Welcome to CHEM 1A – Sec 25

Welcome to CHEM 1A (General Chemistry I) at De Anza College! I'm excited to have you in this class. Together, we'll foster a collaborative and inclusive environment to enhance our understanding of chemistry while building confidence in sharing ideas. Through interactive group activities and discussions, we'll have plenty of opportunities to engage and communicate effectively. Let's work together to make this a meaningful and successful learning experience!

Instructor Contact Information

- Nida Khan
- Email id: khannida@fhda.edu
- Student hours: Tuesdays & Thursdays 5:45 PM to 6:15 PM in MLC 103 (subject to change in case of meeting conflicts)
- I am available to meet with you during my scheduled student hours. If you cannot meet during these hours, please email me, and I will make every effort to accommodate you. I strive to respond to emails within 24 hours on weekdays, though replies may take up to 72 hours on weekends.

Course Overview

This course provides an introduction to the structure and reactivity of matter at the molecular level, as well as an application of critical reasoning to modern chemical theory and structured numerical problem-solving. Students will learn the development of molecular structure from rudimentary quantum mechanics, including an introduction to ionic and covalent bonding; chemical problem

solving involving both formula and reaction stoichiometry employing the unit analysis method, and be introduced to thermochemistry and a discussion of the first law of thermodynamics.

Prerequisites

CHEM 25 or CHEM 30A with a grade of C or better, or satisfactory score on the Chemistry Placement Test; and intermediate algebra or equivalent (or higher), or appropriate placement beyond intermediate algebra

Advisory

ENGL C1000 or ENGL C1000H or ESL 5

Syllabus Statement

This course syllabus is a contract. Please read it carefully and completely in its entirety before asking me any questions regarding the course schedule, content, requirements, grading, etc. You are expected to always adhere to the De Anza College Student Code of Conduct Administrative Policy 5510. This syllabus is also a living document, and it may be necessary to make minor corrections or changes during the quarter. I will not make major changes to the syllabus except in cases of force majeure or following class discussion. All corrections and changes to this syllabus will be announced through Canvas.

This class is divided into two separate instructional threads: a lecture portion devoted to the primary course material and a lab portion for conducting lab experiments. At De Anza College, the lab and lecture may not be taken as separate courses under any circumstances.

Course Outline of Record

Online at: [Course Outline General Chemistry I](#)

Please save a copy of the course outline of record. You may find it useful when you transfer.

Course Objectives

- Examine contributions by investigators of diverse cultures and times to the body of chemical knowledge, with an emphasis on physical and chemical conceptual frameworks.
- Investigate the critical aspects of measurement.
- Explore the historical development of understanding the structure of the atom.
- Assess the development of the Periodic Table of Elements in light of modern atomic theory.
- Differentiate the causes and types of molecular bonding.
- Appraise the effect of quantum mechanics on formulation of molecular structure.
- Employ systematic nomenclature to the identification of molecules.
- Utilize the principles of stoichiometry to analyze compounds, chemical mixtures, and reactions.
- Examine the prominent characteristics of solutions.
- Classify the major types of chemical reactions.
- Apply the essential principles of thermodynamics to chemical systems.

Student Learning Objectives

- 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.

Our community goals

What you can expect from me

- I will treat you with dignity and respect and be flexible to support your individual needs.
- I will provide you with a clear, organized course designed to ensure you meet our course outcomes meaningfully.
- I will provide a variety of assignments to ensure your learning needs are met.
- I will grade assignments in a timely manner to facilitate your success on future assignments.
- I will be actively present in your learning.
- I will provide a supportive and safe environment for you to share and discuss ideas with your peers.
- I will reach out to you when I sense that you need support.

What I will expect from you

- Treat me and your peers with dignity and respect.
- Strive to be an active participant in this course.
- Maintain an open line of communication with me so I understand how to support you.
- Aim to meet due dates. Contact me if you have a concern with meeting a due date.
- Do your best to have patience with technology. There will be hiccups; expect them. We will get through them together.

What we can expect from each other

- We will not be perfect. We are human and will make mistakes at times. We will view mistakes as an opportunity to learn and grow.
- We will all strive to contribute regularly in collaborative activities to ensure all members of the community have ample opportunity to read/listen, reflect, and respond to all ideas.
- Disagreements are part of learning and growing, but we will always treat one another with dignity and respect.
- If you sense a negative emotion surfacing within yourself, step away for a while; reflect on what is happening; and then return and respond by focusing on the issue, not the person.

Important Dates (Course Start & End Dates: 5-JAN-2026 to 27-MAR-2026)

These dates may impact financial aid, refunds, and/or transcript grades. Please contact Financial Aid or Counseling if you have questions.

Last Day to add a course: 18-JAN-2026

Last Day for Drops without "W": - 18-JAN-2026

Last Day for Drops with "W": 27-FEB-2026

Exam Dates

Midterm 1: 27-JAN-2026

Midterm 2: 19-FEB-2026

Midterm 3: 10-MAR-2026

Lab Exam: 18-MAR-2026

Final Exam: 26-MAR-2026

Materials Required

Textbook:

Title: Chemistry

Subtitle: A Molecular Approach (Edition: 6)

ISBN: ISBN 9780137493616 (hardcover) | ISBN 9780137832217 (e-Textbook)

Authors: Nivaldo J. Tro

Publisher: Pearson

Other Materials: Lab notebook, Lab coats (optional)

Calculator

A scientific calculator with natural-log and base-10-log functionality is necessary and sufficient for this class. If you have already purchased a graphing calculator for another class, you may use it this quarter.

Safety Goggles

UV-sterilized shared safety goggles will be provided! If you would be more comfortable purchasing your own safety goggles, they must meet "ANSI Z-87.1-1989R" specifications.

Lab notebook

For maintaining observations and calculations.

Communication Policy

How to Reach Me

You're not on this chemistry journey alone! Whether you find Chem 1A challenging, I'm here to guide you every step of the way. If you have questions, concerns, or need clarification, please feel free to get in touch. Here's how you can reach me:

- **Email:** The best way to contact me is through Canvas Inbox or my fhda email id. I strive to respond within 24-48 hours. If you don't hear back within that time frame, feel free to send a follow-up to ensure your message isn't missed.
- **Office Hours:** Office hours are a great opportunity to discuss your questions one-on-one or as part of a group. If meeting individually feels daunting, bring along classmates and make it a collaborative session!
- **Assignment Comments in Canvas:** You can leave comments on specific assignments, but keep in mind, I primarily see these while grading. For anything urgent, it's better to email or visit during office hours.

How I'll Communicate with You

As your instructor, I'll actively keep you informed and support your progress in the following ways:

- **Class Announcements:** Weekly announcements with important updates will be posted on Canvas. Be sure to adjust your Canvas settings to receive these notifications via email if you prefer.
- **Assignment-Specific Updates:** Occasionally, I'll share announcements about labs, exams, quizzes, discussions, or changes to the schedule.
- **Individual Contact:** For personal feedback or concerns, I'll reach out via Canvas Inbox or the email listed on the course roster.

Feel free to reach out whenever you need help or guidance—I'm here to support your success!

Help and Support

De Anza College is here to help you! You may find many resources at <https://www.deanza.edu/resources/>. If you are in need of any basic resources, your instructor can request campus offices to reach out to directly. Please send me an email with any relevant information as well as permission to share with college offices.

Academic Support

The MSTRC has tutoring for chemistry classes, and tutoring is available in many languages. Please see their website for additional information: <https://deanza.edu/studentuccess/mstrc/>

Disability Support Services (DSS)

If you require accommodations such as extended time for assessments, please coordinate with Disability Support Services. <https://www.deanza.edu/dsps/dss>

Grades

I want to make sure you know how you're doing in this class, so I'll be updating grades regularly in Canvas.

Grades are based on overall percentage (not points). Final grades will be assigned based on a plus/minus grading scale. A grade "C" or better is required to pass this course.

Number Grade	Letter Grade
94% to 100%	A+
90% to 94%	A
87% to 90%	A-
84% to 87%	B+
80% to 84%	B
77% to 80%	B-
74% to 77%	C+
70% to 74%	C
67% to 70%	D+
64% to 67%	D
60% to 64%	D-
0% to 60%	F

Grade Computation:

Lab component (25%)

- Lab reports: 20%
- Lab Exam: 5%

Lecture Component (75%)

- Lecture Quizzes: 10%
- Midterm 1: 15%
- Midterm 2: 15%
- Final exam: 25%
- Homework: 10%

Attendance

During our time together in class, we'll focus on actively learning chemistry to make the most of your busy schedules. If you are unable to attend a class, please notify me via email with a brief explanation for your absence. This provides a written record, which is required to consider any make-up work. Without prior written notice, missed work cannot be made up.

Depending on the circumstances of your absence, you may need to verify, such as a doctor's note or a jury summons. Please note that absences without justification or notification before the add deadline may result in automatic withdrawal from the class to allow waitlisted students to enroll. Additionally, I am contractually required to drop any student who does not attend the first day of class.

For necessary absences, such as religious observances, legal duties, or medical needs, please inform me well in advance. This allows us to discuss and arrange possible accommodations to support your success in the course.

Lab Attendance

Attendance at all labs is **mandatory**. Regular attendance in the laboratory is essential for your education. Due to time constraints and resource availability, make-up labs will not be offered. If you anticipate an excusable absence, you must inform me no later than three hours before the start of the lab to discuss the situation.

Please note that arriving on time is critical. **If you miss the lecture at the beginning of the lab, you will not be allowed to participate in the experiment and will receive a zero for that lab.** This policy is in place because I cover vital safety precautions specific to each experiment during the lecture, which are mandatory for your safety and the safety of your peers.

Quizzes and exams will follow similar guidelines. Make-up quizzes or exams may be considered depending on the circumstances of your absence, provided you discuss the matter with me in advance.

While I understand that life can sometimes be unpredictable, consistent participation is crucial for mastering the subject. If you are not attending class regularly or are at risk of not passing with a C or better, I will speak with you about the possibility of withdrawing from the course. This ensures that you are taking the class at a time when you can fully commit to it.

Submitting Assignments Online

All assignments must be submitted through the Canvas system. Submissions sent via email will not be accepted.

Assignments must be submitted as a **single PDF document**. Numerous tools are available to help you convert various file formats into PDF. Ensure your work is properly formatted before submission to avoid delays or rejections.

Lab Safety Guidelines

The Chemistry Department at De Anza College has adopted the following mandatory lab safety rules, based on the American Chemical Society's *Safety in Academic Laboratories Guidelines, 7th Edition*. These rules apply to all chemistry lab courses:

- **Safety Goggles:** Approved safety goggles must be worn at all times when chemicals or glassware are in use, including when retrieving items from the stockroom or transporting equipment. Goggles may not be removed until all lab work is complete, and all chemicals and glassware are safely stored.
- **Footwear:** Shoes that completely enclose the foot are required at all times. Open-toed or open-topped shoes, sandals, or slippers (even with socks) are not allowed.
- **Clothing:** Shorts, skirts, cut-offs, or pants that expose skin above the ankle, as well as sleeveless tops, are prohibited in the lab.
- **Hair:** Hair that reaches the shoulders or longer must be securely tied back.

- **Clothing Fit:** Loose clothing should be constrained, while tight-fitting items should be avoided, as chemicals can adhere to the skin.
- **Jewelry:** Wearing jewelry (rings, bracelets, watches, etc.) is discouraged, as chemicals can become trapped between the jewelry and skin.
- **Food and Cosmetics:** Eating, drinking, and applying cosmetics are strictly forbidden in the lab, including during lab lectures.
- **Headphones** are not allowed in the lab to ensure that you can hear emergency announcements.
- **Safety Equipment:** Students must familiarize themselves with the locations of the eyewash stations, emergency showers, and all exits.
- **Instructor Supervision:** Students may not be in the laboratory, balance room, or instrument room without an instructor present.
- **Non-Enrolled Individuals:** Once the add deadline has passed, individuals not enrolled in the course may not remain in the lab, even during lectures.
- **Health Concerns:** If you feel faint or unwell during lab, inform an instructor immediately before stepping out, so you can be monitored.
- **Heating Safety:** Never point a heated system at any person, including yourself.
- **Glass and Needles Disposal:** Dispose of broken glass and needles in designated containers only—never in regular trash bins.
- **Chemical Disposal:** Do not pour chemicals down the sink, except for soapy or clear rinse water used to clean glassware. All remaining chemicals must be disposed of in appropriately labeled waste containers.
- **Behavior:** Follow the De Anza College Code of Conduct at all times. Any actions that could startle, frighten, or endanger others in the lab are strictly prohibited.

Failure to adhere to these safety rules may result in removal from the lab or other disciplinary action. Safety is our top priority—please take these guidelines seriously to ensure a secure learning environment.

Eye Safety

Eye Hazards

While chemicals pose a significant risk to eye safety, glassware often presents a greater hazard in the lab. For instance, if a chemical sample in a test tube unexpectedly explodes, the resulting flying glass shards can cause serious injury. Innocent bystanders are particularly at risk since they may not be aware of incidents occurring nearby.

Safety Goggles

Goggles must be worn at all times in the lab, including when accessing the stockroom or even if you are finished with your lab work and chatting with peers. Failure to wear safety goggles properly at all times will result in immediate removal from the course.

- Safety goggles must be specifically designed for chemical laboratory work. Goggles intended for yard work or industrial tasks are not acceptable.
- Goggles must form a complete seal around your eyes to prevent objects or chemicals from entering from the sides.
- For prescription glasses users:

- Regular glasses do not offer adequate protection as they are not shatter-proof and lack proper side shielding.
- You must wear safety goggles over your prescription glasses.
- If you frequently take lab classes, consider investing in prescription safety goggles for better comfort and protection.

Contact Lenses

- While wearing contact lenses in the lab is allowed, there are some concerns about the potential risks posed by certain chemicals, particularly with soft lenses.
- Although the risk is minimal and there is no departmental restriction on contact lens use, it is advisable to make a personal decision based on your comfort level. Always wear appropriate safety goggles over contact lenses for full protection.

Key Reminder

Safety goggles are essential for protecting yourself and those around you from unexpected hazards in the lab. Wearing them at all times is non-negotiable and critical to maintaining a safe working environment.

Personal Protective Equipment (PPE)

In addition to wearing safety goggles, you can further minimize your chemical exposure in the lab by utilizing additional personal protective equipment (PPE):

- **Nitrile Disposable Gloves:**
 - Wearing nitrile gloves helps protect your hands from direct contact with hazardous chemicals.
 - Ensure the gloves are intact and replaced immediately if torn or contaminated.
- **Chemically Resistant Lab Coat:**
 - A lab coat provides a protective barrier for your clothing and skin against chemical spills or splashes.
 - Choose a lab coat made of a chemically resistant material for optimal safety.
- **Appropriate Clothing:**
 - Wearing long-sleeve shirts instead of short-sleeve options offers added protection.
 - Avoid loose clothing that could come into contact with chemicals or equipment.

Incorporating these additional PPE measures, along with wearing safety goggles, ensures better protection and a safer laboratory experience.



Medical Considerations

Your health and medical history are entirely private, and you are under no obligation to share any such information with me. However, for your safety, please consider the following:

- **Allergies**
 - If you are aware of any allergies to specific compounds used in an experiment, inform me before the lab begins. This will allow me to evaluate whether alternative arrangements are necessary.
- **Pre-existing Medical Conditions**
 - If you have a medical condition that may affect your ability to safely work in a lab environment, I encourage (but do not require) you to notify me. This information will help me assist you in case of an emergency.
- **Pregnancy**
 - If you are pregnant or believe you may become pregnant, it is strongly recommended that you consult your doctor regarding participation in this course.
 - A complete list of chemicals used during the quarter is available upon request so that your doctor can provide informed advice about your involvement in laboratory activities.

Your safety is my priority, and sharing relevant information enables me to better support you during the course.

Emergencies

To ensure everyone's safety, follow these procedures in case of an emergency:

- **Spills:** Do not attempt to clean up spills on your own. Notify me immediately so I can secure the area and implement proper mitigation measures.
- **Chemical Exposure:** If chemicals come into contact with your skin or clothing, immediately rinse the affected area with plenty of water. Have someone inform me right away.
- **Eye Exposure:** If chemicals splash into your eyes, go to the nearest eyewash station and flush your eyes thoroughly. Ensure someone alerts me immediately.
- **Injury:** For cuts, burns, or any other injuries sustained during lab, notify me immediately so I can arrange for appropriate medical attention.

- **Evacuation:** If evacuation is required, use only marked "exit" doors and proceed to the designated assembly area at the track and field.
- **Fire:** Do not attempt to extinguish a fire yourself. Notify me immediately and be prepared to evacuate the room if necessary.
- **Earthquake:** Move away from equipment and take cover under a sturdy desk or table until the shaking stops. Then, evacuate to the track and field area as directed. Always remain calm and follow instructions during any emergency to ensure the safety of yourself and others.

Chemical Safety Rules

- **Read Labels Carefully:** Always read labels twice, especially when in a hurry. For example, be careful not to confuse "sodium nitrite" with "sodium nitrate."
- **Refer to Safety Data Sheets (SDS):** If you're uncertain about the hazards of any substance or mixture, always refer to its SDS for guidance.
- **Return Reagents Properly:** After using reagents, always return the bottles to their designated secondary containment.
- **Cap Containers After Use:** Never leave any substance or mixture uncapped after use, as it may react with the surrounding environment.
- **Do Not Return Unused Reagents:** Never return unused reagents to their original containers, as they may be contaminated once opened.
- **Avoid Personal Stock of Reagents:** Do not take extra reagents for personal use at your workbench, as any excess cannot be returned and will go to waste.
- **Single-Use Pipettes:** Once a pipette comes into contact with a substance or object, do not reuse it.
- **Do Not Consume Lab Products:** Never consume anything made in the lab, as the reagents and techniques used are not pharmaceutical grade.
- **Do Not Remove Chemicals from the Lab:** You are not licensed to transport hazardous materials, so never remove chemicals from the lab.
- **No Food or Personal Items in Chemical Refrigerators:** Never store food or personal items in chemical refrigerators.
- **Ethanol in the Lab is Poisoned:** All ethanol in the lab is intentionally poisoned to render it unfit for consumption.

Lab Policy (Policies may differ for different instructors)

Pre-lab

Before each new experiment, you are required to prepare a pre-lab. On the first day of a new experiment, I will verify whether you have completed the pre-lab satisfactorily. If your pre-lab is not complete, you will not be allowed to perform the experiment and will therefore receive a zero for that lab. There are four reasons why I insist you complete a pre-lab ahead of time:

- **Safety:** If you are unfamiliar with the procedure for an experiment before coming to class, you are not aware of the hazards you might encounter. You are therefore a danger to both yourself and the other students in the class.

- **Courtesy:** If you are not prepared for an experiment and you constantly ask people around you for help, you are a distraction to those who took the time to properly prepare for their lab.
- **Efficiency:** If you do not prepare for an experiment before coming to the lab, you will waste a lot of time trying to figure out how to conduct the experiment, which means you may not be able to complete the experiment in time.
- **Learning:** Whether or not chemistry is your favorite subject, you have signed up for this course, so you might as well take the time to benefit from it. If you prepare before an experiment, you are far more likely to gain something from it.

Pre-Labs & 3-Ring Binder

Lab Manual Organization: Maintain your lab manual in a 3-ring binder (1 inch or 1.5 inch). This ensures that your work is organized and can easily be reviewed.

Pre-lab must include the following items:

I. Purpose – Write one or two complete sentences in your own words describing the purpose (or purposes) of the experiment. Answer these questions: What is the goal of the experiment? What are we trying to learn?

II. Reaction(s) and/or Equation(s) – Rewrite the chemical reaction(s) and equation(s) in your notebook. These are key pieces of information you will refer to in the other sections of your lab report.

III. Hypothesis – Write four succinct sentences addressing the following questions:

1. What do you expect to observe in the lab?
2. Which data will you collect?
3. How will these observations help achieve the purpose?
4. If a chemical reaction is being used, how will you know that reactants are turning into products? If experimenting with an equation, how will you know that the data fits the equation?

IV. Procedure – Read the procedure before coming to class and write out a brief, bullet-pointed version in your lab notebook. This should be in your own words and include enough detail to follow without consulting the lab manual during the lab. Include measurements (masses, volumes, etc.), chemical formulas, conversion factors, given information such as densities, and any equations you will use. Completing this ahead of time will help you perform the experiment efficiently.

College Agreement

The De Anza College Mission

Believing a well-educated population is essential to sustaining and enhancing a democratic society, De Anza College offers programs and services that empower students to achieve their goals as members of the workforce, as future students, and as global citizens. We work to obtain equity in the achievement of student outcomes for all California student populations and are guided by our core values of honesty, integrity, trust, openness, transparency, forgiveness, and sustainability.

To support our mission, we offer the following:

Academic Integrity Agreement

As a student at De Anza College, you will join a community of scholars including faculty, staff, and students who are committed to integrity in the teaching and learning process. We value integrity as a core component of our reputation, which we build together.

Your work at De Anza contributes to your own academic reputation—a reputation you'll take with you into your career.

To build and maintain your individual and our collective reputation, all De Anza community members (including faculty, staff, students, and administrators) are asked to be attentive to upholding the highest academic integrity standards, and to actively avoid challenges to academic integrity, including cheating and plagiarism. These are defined as:

- **Cheating** is the act of obtaining, or attempting to obtain, credit for academic work using dishonest, deceptive, or fraudulent means.
- **Plagiarism** represents someone else's work as your own and submitting it for any purpose or reusing work from one class for another without the express permission of both instructors.

Academic and/or administrative consequences may be applied for violating our shared values of academic integrity. For more information, please see [The Academic Integrity Page](#).

“Education is not the learning of facts, but the training of the mind to think.”
~ Albert Einstein

[ACS Periodic Table](#)



ACS
Chemistry for Life®

PERIODIC TABLE OF ELEMENTS

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CHEM 1A -SEC 25- WINTER 2026 LECTURE SCHEDULE (DAC)			
WEEK #		TUESDAY	THURSDAY
Weeks	Date	6-Jan	8-Jan
1	Lecture	Ch.1 Measurements	Ch.1 Measurements (Contd.)
2	Date	13-Jan	15-Jan
	Lecture	Ch.2 Atoms & Elements	Ch.2 Atoms & Elements (Contd.)
3	Date	20-Jan	22-Jan
	Lecture	Ch.3 Molecules & Compounds	Ch.3 Molecules & Compounds (Contd.)
4	Date	27-Jan	29-Jan
	Lecture	Midterm 1	Ch.4 Chem. Rxns. & Quan.
5	Date	3-Feb	5-Feb
	Lecture	Ch.4 Chem. Rxns. & Quan. (Contd.)	Ch.5 Int. to Soln. & Aq. Rxns.
6	Date	10-Feb	12-Feb
	Lecture	Ch. 5 Int. to Soln. & Aq. Rxns. (Contd.)	Ch.7 Thermochemistry
7	Date	17-Feb	19-Feb
	Lecture	Ch.7 Thermochemistry (Contd.)	Midterm 2
8	Date	24-Feb	26-Feb
	Lecture	Ch. 8 Quantum	Ch. 8 Quantum (Contd.)
9	Date	3-Mar	5-Mar
	Lecture	Ch.9 Periodic Prop.	Ch.9 Periodic Prop. (Contd.)
10	Date	10-Mar	12-Mar
	Lecture	Midterm 3	Ch.10 Chemical Bonding I
11	Date	17-Mar	19-Mar
	Lecture	Ch. 10 & Ch. 11 (Chemical Bonding I & II)	Ch.11 Chemical Bonding II
12	Date	24-Mar	26-Mar
	Lecture	Final Exam: Thursday 26th March (4:00 PM - 6:00 PM)	

CHEM 1A -SEC 25- WINTER 2026 LAB SCHEDULE (DAC)			
WEEK #		MONDAY	WEDNESDAY
Weeks	Date	5-Jan	7-Jan
1	Lab	Introduction & Check-In	Measurement
2	Date	12-Jan	14-Jan
	Lab	Nomenclature	Hydrate
3	Date	19-Jan	21-Jan
	Lab	Martin Luther King Holiday	Types of Reactions (Day 1)
4	Date	26-Jan	28-Jan
	Lab	Types of Reactions (Day 2)	Precipitation (Day 1)
5	Date	2-Feb	4-Feb
	Lab	Precipitation (Day 2)	Precipitation (Day 3)
6	Date	9-Feb	11-Feb
	Lab	Conductivity (Day 1) ~ Vernier	Conductivity (Day 2) ~ Vernier
7	Date	16-Feb	18-Feb
	Lab	Presidents Day Holiday	Acid-Base Titration (Day 1)
8	Date	23-Feb	25-Feb
	Lab	Acid-Base Titration (Day 2)	Calorimetry (Day 1) ~ Vernier
9	Date	2-Mar	4-Mar
	Lab	Calorimetry (Day 2) ~ Vernier	Redox Titration (Day 1)
10	Date	9-Mar	11-Mar
	Lab	Redox Titration (Day 2)	Line Spectra
11	Date	16-Mar	18-Mar
	Lab	Molecular Model	Lab Exam & Ckeck-Out
12	Date	23-Mar	25-Mar
	Lab	Finals Week	

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:

T,TH 5:45 PM - 6:15 PM

MLC 103

T,TH 6:15 PM - 6:45 PM

MLC 103