

CHEMISTRY 1220 – General Chemistry II

Spring 2026 Lecture Syllabus

TRF | 9:35 AM – 10:50 AM | Agricultural Admin Bldg 0043

5 credit hours

Introduction

Instructional Team

Role	Name	Email
Lecturer	Dr. Rebecca Ricciardo	ricciardo.10@osu.edu
Lecture TAs	Sukh Singh	singh.1991@buckeyemail.osu.edu
	Nicholas Cedron	cedron.1@buckeyemail.osu.edu
Lab Supervisors	Dr. Bernice Opoku-Agyeman and Dr. Camila Fontes Neves da Silva	chem1220labsupervisor@osu.edu
Lab TA	Varies with lab section	Provided in lab.
Course Coordinator	Jennifer Stebick	genchem@osu.edu
Office Contact	Holly Wheaton	wheaton.4@osu.edu

Please see the [Contacts](#) page in Carmen for information on your instructors and who to contact for your unique needs.

Welcome to CHEM 1220!

We are so glad you are here and are excited to explore general chemistry concepts with you this semester. Our goal is that you leave this course with an appreciation of how chemistry impacts your everyday lives. We also want to provide you with the foundational chemistry concepts that will facilitate your success in future science courses and careers. Our team of lecturers and administrators are deeply committed to supporting your learning journey.

This syllabus outlines the resources, policies, and procedures that will ensure your success in this course. Please familiarize yourself with this syllabus and keep it in a convenient place for reference throughout the semester (buckle up—it's a big course, so it's got a big syllabus). If you have questions or concerns about the syllabus itself, please contact your lecturer, Dr. Ricciardo at ricciardo.10@osu.edu

Undergraduate Office

614-292-1204, Celeste Laboratory, room 110 (CE 110). Holly keeps us afloat from there and has the answers to life's big and small questions. Stop by any time Monday–Friday, 8:00am–4:30pm for assistance (but if you're going to ask Holly what the meaning of life is, maybe call first and schedule an appointment).

Required Materials

The following materials are required for the course:

Textbook & Homework Software

An electronic copy of the textbook and online homework software (Mastering Chemistry) for the lecture portion of this course are provided through the Carmenbooks program. **You do NOT need to independently purchase a textbook for the course**; instead, you will be charged for your access to the e-text and online homework software through a “Carmenbooks” fee on your statement of account. You can learn more about the e-textbook fee for this course by visiting the [Textbook Information](#) Carmen page.

If you work better with a hard copy of the textbook, you can purchase one at a bookseller of your choice. A hard copy of the text is not sold in the university bookstore. The textbook is *Chemistry: The Central Science*, 15th edition, by Brown, LeMay, Bursten, Murphy, Woodward, & Stoltzfus.

Tablet or Laptop

Exams will be administered through LockDown Browser and **must** be taken on a tablet or laptop.

By **Monday, January 19**, follow the instructions on the [Preparing Your Device for Exams](#) Carmen page to make sure your device meets the minimum requirements for using LockDown Browser.

If you do not already own a device or if your device does not meet the minimum device requirements, AND you qualify for financial aid, you may borrow a device through the [Student Technology Loan Program](#). Submit your loan request by the end of day **Monday, January 19** to ensure you are prepared for your first exam.

Approved Calculator

All components of CHEM 1220 require a calculator. Only four calculator models are approved for use in this course. Please note that these are the only calculators permitted during exams:

- [Texas Instruments TI-30XIIS](#)
- [Texas Instruments TI-30Xa](#)
- [Texas Instruments TI-83](#)
- [Texas Instruments TI-84](#)
- *Plus and Plus CE models of the above calculators are also permitted.*

If you do not already own one of these calculators, the most cost-effective models are the TI30XIIS and the TI30Xa. You can purchase your calculator at the retailer of your choice.

Required Laboratory Materials

Details are found in your [Lab Syllabus](#).

Course Components

Your CHEM 1220 course consists of three components that meet at different times.

Lecture

- **Three sessions per week, 75 minutes each**
- **20% of final course grade** (10% from online homework and from 10% from lecture work)
- Your lecture schedule appears on pages 8-10.
- Your lecturer will assign homework through Mastering Chemistry. While each assignment may have a unique due date set by your lecturer, no homework assignments will be accepted after **Monday, April 27 at 11:59 PM**.
- We will administer most of these activities via Learning Catalytics, a classroom response system integrated through Carmen Access Pearson (at no additional cost to you!). You will be able to submit answers to in-class questions using a device like a tablet or laptop. The grading for each question will be based on participation and correctness at the instructor's discretion.
- Your point of contact for lecture is Dr. Ricciardo. You can email them at ricciardo.10@osu.edu. You can find their office hours information on the [Contacts](#) page in Carmen.

Lab

- **One session per week, 2 hours 55 minutes**
- **20% of final course grade**
- The policies, procedures, and schedules for the lab component of this course appear in your [lab syllabus](#).
- The lab portion of this course is worth 20% of your total course grade. However, a minimum of 50% of the total lab points is required to pass the overall course. See your [lab syllabus](#) for more information.
- Your first point of contact for lab is your lab TA, who you will meet on the first day of lab. For more complicated questions and concerns about lab, contact your Lab Supervisors at chem1220labsupervisor@osu.edu.

Exams

- **Four 50-minute midterms and one 105-minute final**
- **60% of final course grade** (4 regular exams at 10% each and 1 final exam at 20%)
- Midterm exams will be administered in-person during specified lecture sessions.
- The final exam will be held in-person according to the university registrar's final exam schedule.
- Exam information and the exam schedule appear on pages 10-11.
- Your point of contact for exams is your Course Coordinator, Jennifer Stebick, at genchemexams@osu.edu. Please state your course, lecturer, and lecture time in your email.

Course Information and Policies

Communication

Your instructional team will communicate important information to you throughout the term via Carmen announcements and your Buckeyemail email account. Please verify that your OSU email is

set up appropriately on your electronic devices so we can keep in touch. We highly recommend that you check email and Carmen at least once per day.

Carmen

[Carmen](#) is the Learning Management System (LMS) used at Ohio State. It is the central hub from which your course will be conducted. Everything you need for the course is available in and communicated through Carmen, so daily engagement with it is crucial to your success in this course. It is important that you check your Carmen notification settings to ensure you receive course announcements in a timely manner. You can learn how to set up Carmen notifications by visiting the [Carmen Notification Preferences Guide](#).

Log in to Carmen to:

- Access your textbook and course materials
- Read important announcements
- Complete assignments
- Turn in lab reports
- Take exams
- View your grades
- Find complete policies
- Locate learning and personal resources

A free Canvas app is available to download for both [Android](#) and [iOS](#), making it easy to log in to your course from anywhere.

Enrollment Information

In accordance with federal regulations (Title IV), we must report your attendance status to the University Registrar after the first week of classes. The [Academic Misconduct Quiz](#) is the assignment we use to gauge your enrollment in the course. You may also hear this assignment referred to as "The COAM Quiz." If you do not complete the quiz by 11:59 PM, **Sunday, January 18**, you will be reported to the Registrar as "non-attending," which may lead to disenrollment and problems with your financial aid.

Switching Sections

Stop by the office (Celeste 110) or email Holly (wheaton.4@osu.edu) before **Friday, January 23** to switch sections. When you switch sections, ask your TA to transfer the grades you have already earned to your new section. They will be sad to see you go.

Switching between sections of General Chemistry is not permitted after **Friday, January 23**.

In accordance with the missed laboratory policy detailed in the [Laboratory Syllabus](#), if you know you will miss more than one laboratory period (for reasons such as OSU athletic competitions, military training or duties, or religious observances), please see/contact Holly by **Friday, January 16** to move to a laboratory section that minimizes scheduling conflicts.

Changes to the Syllabus

ONLY the Lecturer, Lab Supervisor, and Course Coordinator of the course may modify due dates and assignment details in this syllabus. Teaching Assistants are not authorized to alter any syllabus information or course policies.

Absence and Closing Policies

Absences

If you're unable to attend class, it is important that you follow the posted procedures to ensure you stay on track. Each course component has unique procedures:

- **Exams:** Read the [Alternate and Make-up Exam Policy](#) or [Make-up Final Exam Policy](#), then submit the application linked within.
- **Labs:** Refer to the [lab syllabus](#) for lab absence policies and procedures.
- **Lecture:** We understand that absences may be unavoidable at times, **therefore we will only be counting 75% of the in-class activity points toward the in-class activities course grade.** The more that you attend and participate during class, the more likely you are to earn all your points. You must be present in class to earn the points; it will be considered academic misconduct if you attempt to answer the questions while not physically present in the lecture hall. **No makeup points will be provided for absences.**

Documentation may be required. Any non-emergency absence requests that are not approved within the first 14 days of the semester will be evaluated based on provided documentation and may not be approved.

Faith-related Absences

In accordance with Ohio State policy, you may be absent from this class for **up to three days** to observe sincerely held religious beliefs and practices, or to participate in organized activities conducted under the auspices of a religious or spiritual organization.

To request a faith-related absence in CHEM 1220:

- You must notify genchem@osu.edu IN WRITING of ALL specific dates for which you are requesting religious accommodations **no later than Monday, January 26.**
- If your requested absence falls on the date of an exam, you must also complete the [Alternate and Make-up Midterm](#) or [Make-up Final Exam](#) application for that absence by **Monday, January 26.**

All members of your instructional team will keep your requests confidential and will work with you to determine accommodations that will support your success in the class. If you have questions about this policy or need assistance, please contact your Course Coordinator at genchem@osu.edu.

University Short-Term Closing

University Short-Term Closing refers to an official temporary shutdown of the university due to severe weather or another critical reason in which the duration is less than five days. Information on university closings is available on the [Ohio State Department of Public Safety campus status website](#)

or by phone at 614-247-7777. You are encouraged to ensure you are registered for [Buckeye Alert Text Messaging System](#).

Should in-person classes be canceled university-wide, this course will follow the guidance below to ensure continuity of instruction:

- **Lecture:** Dr. Ricciardo will notify you of alternative methods of instruction. Communication will be via CarmenCanvas Announcement.
- **Lab:** The lab supervisors will notify you of alternative methods of completing lab activities. Communication will be via announcements posted in your CarmenCanvas course or via email sent to you by chemlabsupervisor@osu.edu or your lab TA.
- **Exams:** If an exam is scheduled during a short-term closing, it may be postponed or moved to an online format. You will receive updated exam details, including format and timing, via Carmen announcements.

Goals and Outcomes

Chemistry 1220 is a physical science course in the natural science category of the GE, which has the following goals and learning outcomes:

1. Students understand the basic facts, principles, theories, and methods of modern science.
2. Students understand key events in the development of science and recognize that science is an evolving body of knowledge.
3. Students describe the inter-dependence of scientific and technological developments.
4. Students recognize social and philosophical implications of scientific discoveries and understand the potential of science and technology to address problems of the contemporary world.

Grading

Your performance in this course will be evaluated based on the components below. **There is no extra credit.** If you have a concern or question about a grade, please contact [Dr. Ricciardo](#) promptly and we will work to adjust any inconsistencies in a timely manner.

Individual assignments within the Lecture, Online Homework, and Laboratory categories will be scaled to contribute toward the established percentage of your total course grade:

Assignment Group	Weight (%)
Mandatory Quizzes	--
In Class Work	10%
Online Homework	10%
Exam 1	10%
Exam 2	10%
Exam 3	10%
Exam 4	10%
Final Exam	20%
Laboratory	20%

Mandatory Academic Misconduct Quiz

This assignment does not contribute to your course grade but must be completed with a 100% score to pass this course. The [Academic Misconduct Quiz](#) not only confirms your enrollment in the course, but also teaches you about academic integrity, which we take very seriously.

You must complete this quiz (with any score) by **11:59 PM on Sunday, January 18** to confirm your participation in the course. If you do not complete the quiz by the January 18 deadline, you will be reported to the Registrar as “non-attending” in accordance with Federal Title IV guidelines, which may lead to disenrollment and problems with your financial aid.

The **FINAL** deadline to score 100% on the quiz is **8:00 AM on Wednesday, April 29**. You may retake the quiz as many times as you need to receive 100%. **If your score on the Academic Misconduct Quiz is less than 100% as of 8 AM on April 29, your final course grade will be reduced by one full letter** (e.g., if you earn a B+ in the course but do not meet the requirement, your final grade will be a C+).

Additionally, the lab component of your course requires you to complete mandatory assignment/s before you can participate in laboratory activities. That information is in your [lab syllabus](#).

Course Letter Grade Assignment

Once your overall point total (final score) has been calculated using the weighting scheme shown above, your letter grade will be assigned based on the following scale:

Total Score (%)	Letter Grade
$92 \leq x < 100$	A
$88 \leq x < 92$	A–
$84 \leq x < 88$	B+
$80 \leq x < 84$	B
$76 \leq x < 80$	B–
$72 \leq x < 76$	C+
$67 \leq x < 72$	C
$63 \leq x < 67$	C–
$59 \leq x < 63$	D+
$55 \leq x < 59$	D
$x < 55$	E

If exam performance falls outside of historical norms the department retains the right to make changes in the grading scale. Dr. Ricciardo is happy to clarify the grading process and discuss your performance in this course.

Because the grading scale for this course cannot be finalized until all assignments have been completed, you will not see a total letter grade in Carmen throughout the semester to track your progress or anticipate your final grade.

Past data unfortunately shows that students who have achieved a D in 1220/1620 are not successful in organic chemistry. We recommend only continuing onto organic chemistry if you earn a minimum of a C- in 1220/1620.

Component Descriptions and Schedules

Lecture

For the structure of this course, the activities you complete during lecture are extremely valuable and are worth 10% of your overall grade. We will administer most of these activities via Learning Catalytics, a classroom response system integrated through Carmen Access Pearson (at no additional cost to you!). You will be able to submit answers to in-class questions using a device like a tablet or laptop. The grading for each question will be based on participation and correctness at the instructor's discretion. We understand that absences may be unavoidable at times, therefore we will only be counting 75% of the in-class activity points toward the in-class activities course grade. The more that you attend and participate during class, the more likely you are to earn all your points. You must be present in class to earn the points; it will be considered academic misconduct if you attempt to answer the questions while not physically present in the lecture hall. **No makeup points will be provided for absences.**

Lecture topics will be covered according to the schedule below.

Lecture Topics

Chapters	Lecture Topics
13	Properties of Solutions: expressing solution concentration; saturated solutions and solubility; the solution process; factors affecting solubility, factors affecting solubility; colligative properties; colloids.
14	Chemical Kinetics: Factors affecting reaction rates; reaction rates; concentration & rate laws; change of concentration with time; temperature and rate; reaction mechanisms; catalysts.
15	Chemical Equilibrium: Equilibrium, equil. constants and calculations (ICE tables), applications of equilibrium constants; Le Châtelier's principle.
16	Acid Base Equilibria: Acids and bases review; acid-base equilibria; Brønsted-Lowry concept; the autoionization of water; the pH scale; strong acids and bases; weak acids and bases; relationship between K_a and K_b ; salt solutions; acidity & structure; Lewis concept.
17	Additional Aspects of Aqueous Equilibria: common ion effect; buffers; acid-base titrations; solubility equilibria and K_{sp} ; factors affecting solubility.
19	Chemical Thermodynamics: Spontaneous processes; entropy and the 2 nd law of thermodynamics; molecular interpretation of energy & the third law of thermodynamics; entropy changes in chemical reactions; Gibbs free energy; free energy and temperature; free energy and the equilibrium constant.
20	Electrochemistry oxidation states and oxidation-reduction reactions; balancing redox reactions; voltaic cells; cell potentials under standard conditions; free energy and redox reactions; cell potentials under nonstandard conditions; batteries and fuel cells; corrosion; electrolysis.
21	Nuclear Chemistry: radioactivity; patterns of nuclear stability; nuclear transmutations; rates of radioactive decay; energy changes in nuclear reactions; nuclear fission and fusion.

Lecture Schedule

Week	Monday	Tuesday	Wednesday	Thursday	Friday
Jan 12–16		Intro, IMFs		Ch. 13.1-13.2	Ch. 13.3
Jan 19–23	No Classes	Ch. 13.4		Ch. 13.5	Ch. 13.6, Review 13
Jan 26–30		Ch. 14.1-14.2		Ch. 14.3	Ch. 14.4
Feb 2–6		Ch. 14.3 – 14.4 Review		Review	Exam 1 (in class)
Feb 9–13		Ch. 14.5-14.6		Ch. 15.1-15.3	Ch. 15.4-15.5
Feb 16–20		Ch. 15.6		Ch. 15.7	Ch. 16.1-16.3
Feb 23–27		Ch. 16.4-16.5		Review	Exam 2 (in class)
March 2–6		Ch. 16.6		Ch. 16.7-16.8	Ch. 16.9-16.10
March 9–13		Ch. 17.1-17.2		Ch. 17.3	Review
March 16–20	No Classes	No Classes	No Classes	No Classes	No Classes
March 23–27		Ch. 17.1-17.3 Review		Review	Exam 3 (in class)
Mar 30–Apr 3		Ch. 19.1-19.3		Ch. 19.4-19.5	Ch. 19.6-19.7
April 6–10		Ch. 19. Review		Ch. 20.1-20.2	Ch. 20.3-20.4
April 13–17		Ch. 20.5		Review	Exam 4 (in class)
April 20–24		Ch. 20.6, 20.7, 20.9		Ch. 21.1-21.4	Ch. 21.6-21.8
Apr 27–May 1		Reading Day	Finals Week	Finals Week	Finals Week

Laboratory

Please consult your [lab syllabus](#) for lab schedules, policies, and procedures.

Exams

Midterm exams are administered in person during lecture. The final exam will be held in person according to the Registrar's final exam schedule. See the schedule below for dates.

All exams must be completed on a tablet or laptop using LockDown Browser. See the Required Materials section of this syllabus (page 2) for more information.

Exam Schedule

Exam	Date	Coverage
Exam 1	Friday, February 6	Ch 13 and Ch 14.1-4
Exam 2	Friday, February 27	Ch 14.5-6, Ch 15, Ch 16.1-5
Exam 3	Friday, March 27	Ch 16.6-10 and Ch 17.1-3
Exam 4	Friday, April 17	Ch 17.4-6, Ch 19 and Ch 20.1-5
Final Exam	Monday, May 4 at 8:00 AM in Room TBA (yes, Monday at 8:00 AM)	Cumulative + Ch 20.6-7, Ch.20.9, Ch 21.1-4 and 21.6-8

Make-up Exams

Since exams are administered during scheduled lecture meetings, there are limited opportunities for make-up exams. That said, we understand that things such as illness and emergency may prevent you from taking an exam as scheduled above. For this reason, we offer two types of alternative testing sessions: “Alternate” exams and “Make-up” exams. Full details are found in the [Alternate and Make-up Midterm Policy](#) and [Make-up Final Exam Policy](#) in your Carmen course. It is important that you read the policies carefully, **as alternative testing sessions will only be provided to students who follow the policy instructions and deadlines.**

All requests must be submitted through the application, which is linked at the bottom of the appropriate policy. Requests are not accepted through email. **Submission of the application does not guarantee an alternative exam time will be granted**, as all applications are subject to the policy and must be evaluated for approval. You should submit your application as early as possible, so that you receive a response as early as possible.

The Course Coordinators evaluate Alternate and Make-up exam applications, and schedule exams for all General Chemistry courses. Dr. Ricciardo cannot arrange alternative or make-up exams, so if you need one, please do not contact them. Simply submit the application and it will reach the coordinators for consideration. You can also reach your Coordinator at genchemexams@osu.edu. Please state your course (CHEM 1220), lecturer, and lecture time in your email.

Resources for Academic Success

General Chemistry Success Centers:

As a student enrolled in general chemistry, you have access to multiple Success Centers staffed by teaching assistants dedicated to helping you succeed in the course. The first location is the Learning Resource Center (LRC) in Celeste Lab 170, which focuses on lecture-related topics. Here, you can receive personalized assistance, clarify concepts covered in lectures, and address individual questions about various aspects of the course. For laboratory-related support, visit Celeste Lab 305. **It is highly recommended that you take full advantage of these resources to enhance your understanding and performance in both the lecture and laboratory components of your general chemistry course.** To make the most of your visits, come prepared with specific questions or topics you need help with, bring your course materials, and be ready to actively engage in the

learning process. Hours and staffing schedules for the Success Centers will be linked in the [How to Get Help](#) Carmen page.

Additional Resources:

The [Campus Resources](#) page in Carmen offers links for help with everything from course content to mental health to finances and extracurricular involvement. It is a good place to start if you aren't sure where to go for information or assistance. Carmen is truly the beginning and end of all things.

Disability Services:

The general chemistry program strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including mental health, chronic or temporary medical conditions), reasonable accommodations can be established in partnership with Student Life Disability Services (SLDS).

IMPORTANT: Applying for and using SLDS accommodations in general chemistry is a multi-step process that involves working with both the SLDS office and our office. Please follow each of these steps:

1. First, follow the instructions on the [Requesting SLDS Accommodations in General Chemistry](#) Carmen page.
2. Second, follow the instructions on the [Using SLDS Accommodations in General Chemistry](#) Carmen page. It is very important that you read these instructions carefully.
3. Finally, **carefully read all correspondence you receive regarding your SLDS accommodations.** You will receive emails from both SLDS and the general chemistry instructional team.

We understand that this setting up SLDS accommodations can be a confusing and daunting process, but Holly is especially good at navigating it, so please reach out to her if you have any questions or uncertainties. You can stop in the office, call (614-292-6009), or email Holly for help.

Disability Services Contacts

Contact	Email	Phone	Address
SLDS	slds@osu.edu	614-292-3307	098 Baker Hall
Holly Wheaton	wheaton.4@osu.edu	614-292-1204	110B Celeste Lab

Statement on Intellectual Diversity:

Ohio State is committed to fostering a culture of open inquiry and intellectual diversity within the classroom. This course will cover a range of information and may include discussions or debates about controversial issues, beliefs, or policies. Any such discussions and debates are intended to support understanding of the approved curriculum and relevant course objectives rather than promote any specific point of view. Students will be assessed on principles applicable to the field of study and the content covered in the course. Preparing students for citizenship includes helping them develop critical thinking skills that will allow them to reach their own conclusions regarding complex or controversial matters.

Mental Health Resources:

As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, feeling down, difficulty concentrating and/or lack of motivation. Mental health concerns or stressful events may lead to diminished academic performance or impact a student's ability to participate in daily activities. The Ohio State University offers services to assist you with addressing these and other concerns you may be experiencing.

You can learn more about the broad range of confidential mental health services available on campus via the Office of Student Life's Counseling and Consultation Service (CCS) by visiting the [CCS website](#) or calling 614-292-5766. If you need immediate assistance, call 614-292-5766 and request an urgent appointment. If it is after hours, press 2.

24-hour emergency help is also available through the 24/7 National Suicide Prevention Hotline by calling or texting 988, or by visiting the [988 Suicide & Crisis Lifeline website](#).

Academic Conduct

Some examples of academic misconduct in General Chemistry:

On exams:

- Having another person or third-party service take your exam.
- Receiving assistance from another person while taking the exam (including looking at another student's exam without their knowledge).
- Taking screenshots or photos of the exam.
- Using screen sharing software during the exam.
- Sharing or receiving exam questions or materials in group chats, text messages, phone calls, or on websites, apps, and the like.
- Using notes on the exam.
- Using an unapproved calculator on the exam.

On Lab Reports:

- Altering or "making-up" lab data
- Submitting a previously completed lab report (whether completed by yourself or someone else). Self-plagiarism (i.e.: submitting your own work from another course or semester) is expressly forbidden.
- Copying lab reports from another individual (reports may be submitted to TurnItIn, an originality checker.)
- Working in a group to complete your lab report
- For more information about academic misconduct in the lab portion of your course, see your [lab syllabus](#).

Tips for avoiding academic misconduct¹:

1. **Know Your Rights.** Do not let other students in your class diminish the value of your achievement by taking unfair advantage. Report any academic integrity violation you see.
2. **Acknowledge Your Sources.** Whenever you use words or ideas that are not your own when writing a paper, use quotation marks where appropriate and cite your source in a footnote, and back it up at the end with a list of sources consulted.
3. **Protect Your Work.** In examinations, do not allow your neighbors to see what you have written; you are the only one who should receive credit for what you know.
4. **Avoid Suspicion.** Do not put yourself in a position where you can be suspected of having copied another person's work, or of having used unauthorized notes in an examination.
5. **Do your own work.** The purpose of assignments is to develop your skills and measure your progress. Letting someone else do your work defeats the purpose of your education, and may lead to serious charges against you.
6. **Never falsify a record or permit another person to do so.** Academic records are regularly audited and students whose grades have been altered put their entire transcript at risk.
7. **Never fabricate data, citations, or experimental results.** Many professional careers have ended in disgrace, even years after the fabrication first took place.
8. **Always tell the truth when discussing your work with your instructor.** Any attempt to deceive may destroy the relation of teacher and student.

Artificial Intelligence (AI):

In this course, the integration of artificial intelligence (AI) tools is used to support your learning before and after class, potentially including lecture sessions, Mastering Chemistry assignments, and practice tests. AI is now included within the Mastering Chemistry homework system and other AI systems can also be used for assignments the instructor designates. **The instructor will model how to effectively integrate AI into your study routine**, including how to ask the right questions, interpret AI responses, and apply the information to solve chemistry problems, ensuring AI is used responsibly to complement your own critical thinking and problem-solving abilities. By leveraging AI appropriately, you can achieve a deeper understanding of general chemistry concepts and develop skills that will benefit you throughout your academic journey. **The instructor will specify which activities AI can be used to support.** You may not use traditional artificial intelligence tools embedded in other tools or generative AI tools to assist or produce work for this class EXCEPT on assignments specified in class or on the syllabus. Use of AI-generated content must be cited using an appropriate style guide. Submission of AI-generated content as your own work is considered a violation of Ohio State's [Academic Integrity policy](#) and [Code of Student Conduct](#) because the work is not your own. The use of unauthorized AI tools will result in referral to the [Committee on Academic Misconduct](#). Please contact [Dr. Ricciardo](#) if you have questions regarding this course policy.

If you are unsure about what constitutes academic misconduct in CHEM 1220, PLEASE ASK a member of your instructional team (lecturer, lab supervisor, TA).

¹ From Northwestern University, ["Eight Cardinal Rules of Academic Integrity."](#) December 2024.

Conclusion

We are going to have a great semester learning and experimenting together. We know this syllabus is a lot of information to digest at once but remember that there is a whole instructional team (listed on page 1) to guide you when you have questions. Remember to visit the [Contacts](#) page in Carmen to find out more about who we are and to find which one of us has the specific expertise to address your unique needs. We can't wait to meet you!