



Purdue West Lafayette/Indianapolis
Department of Chemistry
Gen Chem With Bio Focus
CHM (WL) 12901
WL Fall 2026

Course Information

Lectures--required

3 lectures per week (M, W, and F) will be delivered in WTHR 200

There are two lecture sections:

CHM12901-001 (11:30 am – 12:20 pm)

CHM12901-002 (1:30 – 2:20 pm)

Your lecture section is on your class schedule

Labs--required

Thursday or Friday in Chaney-Hale Hall of Science (CHAS)

You will attend one lab section each week

Your lab section timing and location are on your class schedule

Recitation--required

Monday or Tuesday

Your recitation section timing and location are on your class schedule

Problem-Solving Sessions (PSS)--optional

These optional sessions are held one evening per week (beginning week 2); see Brightspace for details

Instructor(s) Contact Information



Name: Chittaranjan Das
Email: cdas@purdue.edu
Office Phone Number: 765 494-5478
Student Consultation Hours
TBD



Name: Jonathan Schlebach
Email: jschleba@purdue.edu
Office Phone Number: 765 496-4225
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Name: Leah Everly
Email: leverly@purdue.edu
Office Phone Number: (765) 494-5225
Student Consultation Hours
By Appointment
Additional Information
Course Coordinator

Course Description

Credit Hours: 5.00. An accelerated and comprehensive one-semester general chemistry course that emphasizes principles that are important in biological systems. This course is designed to cover the essential elements of general chemistry traditionally covered in a two semester series. Topics to be covered include: Stoichiometry and chemical equations; atomic theory and structure; periodic properties; electronegativity; ionic and covalent bonding; non-covalent forces; bond energies; Lewis structures; molecular geometry; gases, liquids, and solids; solutions, quantitative equilibria in aqueous solution; acid/base chemistry and buffers; introductory thermodynamics; oxidation-reduction; electrochemical and membrane potential; colligative properties; chemical and enzyme kinetics; nuclear

chemistry; coordination chemistry. One year of high school chemistry is required.

Prerequisites: Undergraduate level, MA 15900, Minimum Grade of D or Undergraduate level, MA 15800, Minimum Grade of D or Undergraduate level, MA 15400, Minimum Grade of D or Undergraduate level, MA 16100, Minimum Grade of D [may be taken concurrently] or Undergraduate level, MA 16500, Minimum Grade of D [may be taken concurrently] or Undergraduate level, MA 22300, Minimum Grade of D [may be taken concurrently] or Undergraduate level, MA 23100, Minimum Grade of D [may be taken concurrently] or Undergraduate level, MA 16010, Minimum Grade of D [may be taken concurrently] or ALEKS Math Assessment 085 or SAT Mathematics 650 or ACT Math 29 or SATR Math 670

Course Learning Outcomes

By the end of the course, you will be able to:

1. Develop an understanding of universal physical laws as they apply in chemistry.
2. Develop an understanding of the scientific process.
3. Develop the ability to document scientific information and experimental data and to make quantitative/structural measurements and interpret results.

More specifically, by the end of the course, you will be able to:

1. Identify, set up, and solve algorithmic and biologically-relevant problems in general chemistry.
2. Read information on the Periodic Table of the Elements in order to make predictions about the behaviors of compounds and molecules (i.e. size, type of bonding, shape, structure, intermolecular forces, and mass).
3. Synthesize information from the 'bottom-up' (atoms first) approach to solve chemistry problems.
4. Read and represent chemical structures using expanded and compact formats.
5. Identify research-based strategies that have been used to define, develop, and refine chemical principles.
 - a. As part of this course, laboratory experiments will foster technical abilities, emphasize data collection, analysis, and interpretation, as well as written communication of chemical phenomena.

How to Succeed in this Course

How Can You Learn From Lectures?

You can't learn from lectures if you do not attend them or do not think about the

information as it is presented during lectures

You are responsible for all material covered and announcements made in lectures.

Before Class

Complete the assigned reading and review the notes from the previous class.

Download and print any student notes for lecture from the course Brightspace site.

During class

Write the date of the lecture on the student notes at the beginning of class if it is not on the first slide.

Write information that is discussed in lecture but is not on the notes. The professor will give

more information than is on the notes.

Try to answer all the questions that the professor may present.

Write down each step of every problem or example even if you do not understand the step. You can always ask about it later.

Write a question mark next to things you don't understand so you can return to them after class.

Use shorthand or abbreviations so that you can write quickly, but understandably.

After Class

Review your notes while things are still fresh in your mind.

Check your text in order to understand those items that you did not understand and marked in

lecture. If necessary, use office hours with any CHM 12901 Teaching Assistant (TA) or professor to help you.

Never miss lecture. Chemistry is cumulative. What is presented tomorrow depends upon your knowledge of what was covered today. If you will miss class, then get a friend to take notes for you.

It will take you at least two hours out of class for every hour we spend in class in order to study and learn the material. This means about 8 hours of distraction-free studying and working with chemistry each week. You may spend this time working on your lecture notes, reading the text, studying the required material, doing ALEKS homework, studying for exams, or other things. You may find yourself spending more than 8 hours per week if your math skills need

improvement or if it has been a few years since you took a chemistry course. If you are committed to your goals and dreams then dedicate yourself to spending the necessary time to study and do well.

Finally, your ability to understand what you are currently learning may depend on your already having mastered earlier material. So, study chemistry every day and correct your mistakes as they occur.

When Should I Do Homework?

Your assigned homework is considered to be a minimum requirement for keeping focused and learning the material in each chapter. You should practice solving additional problems from the text similar to those assigned and the additional (optional) problems in ALEKS.

The following guidelines should be helpful if you want to do well in a technical course such as CHM 12901 which will probably involve relearning concepts or learning concepts that you did not have in your high school chemistry course. Learning new material requires constant re-enforcement, which means you may have to change your study habits.

Read the assigned pages in the textbook before you attempt any of your homework problems.

Do some work in chemistry every day. Work at least two chemistry problems each day. If you are drawing a blank about the problem after 10-15 minutes, go on to another a problem. Seek help from a CHM 12901 Teaching Assistant (TA) the next day during office hours. After a day or so, solve related problems in the text.

Even though ALEKS usually asks for your final answer only, it is important that you write down your complete problem solutions. You must practice if you are going to be proficient and efficient during exam times and you must show your work to be eligible for the full points!

SOURCES OF HELP FOR STUDENTS IN CHM12901

We are aware that chemistry can be difficult material for some people to learn. At the same time your professors are eager to support your success and provide a variety of teaching and learning methods that may assist with the learning process. In CHM 12901, you will have the opportunity to learn individually, with partners, and in groups. We encourage you to coordinate learning groups for your study and lab report preparation.

Experts indicate that to adequately learn new material in college, 2-3 hours of

effective study outside regularly scheduled class time each week per one (1) credit hour is required. CHM 12901 is a 5-credit course so this suggests that 10-15 hours per week of effective study outside of regular class time is necessary to learn what we want you to learn.

The Chemistry Department provides several sources of help for you in this process at no cost. These include the professors, the CHM 12901 Teaching Assistants (TAs), an undergraduate Supplemental Instructor (SI), and the Chemistry Resource Room (CRR: WTHR 117b).

TA Office Hours: Each CHM 12901 graduate student Teaching Assistant (TA) will hold two one-hour office hours each week and each undergraduate TA will hold a one-hour office hour weekly. In office hours, any CHM 12901 student can go to get help with chemistry. If you are having a problem with some aspect(s) of the course, go first to your Teaching Assistant (TA). He/she wants to help you and is available for consultation both at specific hours and by appointment. Feel free to go to the office hour of another CHM 12901 TA. A complete schedule of office hours and their locations is posted on Brightspace. If you have any questions about office hours contact Leah Everly (leverly@purdue.edu).

Professor: Profs. Schleich and Das will also each hold one office hour per week. You can go to either professors' office hours. E-mail addresses and office hour times and locations will be provided on Brightspace.

Purdue General Chemistry Help Site: <http://www.chem.purdue.edu/gchelp/Visualization> and Problem Solving for General Chemistry

Academic Success Center: <https://www.purdue.edu/asc/> Get help with reaching your academic goals.

Learning Resources, Technology & Texts

Chemistry: Atoms First with ALEKS 360 online homework system

Authors: Julia Burdge and Jason Overby

Edition: 5th edition

Citation

You may purchase access to the electronic version of the textbook and the ALEKS homework two possible ways:

1. The ALEKS 360 Access Card may be purchased from the Purdue bookstore. The ISBN for the Access Card is: 9781264764747. This ALEKS 360 Access Card contains the e-book version of the textbook. You may also purchase a loose-leaf version from your ALEKS 360 Access, if you like.
2. Purchase directly from the ALEKS link from Brightspace when you register for Homework access. This also automatically comes with the e-book version of the textbook.

Additional Required Materials

iClicker App for Recitation quizzes

Digital Materials Charge: Students enrolled in this course must purchase digital materials for lab (\$35). This digital content is required; students cannot complete the course without access to it. The materials will be released online on a real-time (approximately weekly) basis during the Fall 2025 semester. You will purchase access to the digital materials via a Purdue University Online link (<http://www.eventreg.purdue.edu/online/CHMFall35>). Payment is due by September 4, 2025.

Approved safety goggles. Indirectly vented goggles (**not** safety glasses) may be purchased from the storerooms in the CHAS (laboratory) building on either the first or fourth floor. If purchased elsewhere, note that goggles must meet ANSI Z87.1:2020 (+D3) standards.

A Sharpie (black, permanent ink) for marking lab glassware

A scientific calculator with exponential, logarithm and square root functions. **One, or two-line non-programmable calculators are allowed;** Calculators with a SOLVER function, graphing capabilities, or Alpha-numeric capabilities are NOT allowed; If a calculator can graph, or solve, or store equations, then it is NOT allowed. Preferred calculator models are: TI-30Xa (one-line), or TI-30X IIS (two-line).

A bound single-subject dedicated notebook for the laboratory.

Brightspace learning management system (LMS)

Access the course via Purdue's Brightspace learning management system. It is strongly suggested that you explore and become familiar not only with the site navigation, but also

with the content and resources available for this course. See the Student Services widget in Brightspace for Technology Resources, Academic Resources, Campus Resources, and Health and Well-Being Resources.

Assignments

Most weeks you will have the following assignments due:

Homework--online assignments through ALEKS; due by 11:59 PM Sundays

Recitation Quiz--completed in class using iClicker

Recitation worksheet--submitted through Gradescope, due by 11:59 PM Sundays

Lab Report--submitted through Gradescope, due by 11:59 PM the night before your lab meets (for students with Thursday labs, lab reports are due the next Wednesday; for students with Friday labs, lab reports are due the next Thursday)

Grading Scale

Your final course grade will be based on the following scale out of 1200 total points:

A: 1080 - 1200+ points

B: 960 - 1079.99 points

C: 840 - 959.99 points

D: 720 - 839.99 points

F: Fewer than 720 points OR failure to complete 3 or more labs*

*This course has a required lab component. If you fail to complete 3 or more labs, your course grade is automatically an F.

Plus grades are determined at the instructors' discretion at the end of the semester. No minus grades are given.

Grades and Grade Reports

The total number of points for CHM 12901 will be distributed as follows:

Homework 180 pts Best 12 of 13 scaled to 15 pts each
Recitation Activities 165 pts Best 11 of 12 scaled to 15 pts each
Labs 250 pts Best 10 of 11 scaled to 25 pts each
Course Packet Quiz 5 pts REQUIRED
Quiz and Exams 600 pts Best 4 of 5 exam scores at 150 pts each:
3 Midterm Exams (450 pts)
Final Exam is worth 2 exams (300 pts)
TOTAL 1200 pts

Your final course grade will be based on the following scale out of 1200 total points:

A: 1080 - 1200+ points

B: 960 - 1079.99 points

C: 840 - 959.99 points

D: 720 - 839.99 points

F: Fewer than 720 points OR failure to complete 3 or more labs*

*This course has a required lab component. If you fail to complete 3 or more labs, your course grade is automatically an F.

Plus grades are determined at the instructors' discretion at the end of the semester. No minus grades are given.

* The Brightspace Grade is your grade in the course. Monitor this grade compared to your Gradescope grades for accuracy in transfer. If there is a discrepancy, notify your instructor within a week of the posting in Brightspace to have the grades reconciled.

It is your responsibility to check and verify that your scores posted on Brightspace are correct. Shortly after each of the first three exams and shortly before the final exam, all your scores to date will be available to you at the Brightspace grade book. You must report any errors on any graded material to your Teaching Assistant (TA) or to Leah Everly within one week of the time they were posted. All disputed or missing scores must be resolved with your teaching assistant (TA) or Mrs. Everly before the final exam. There will be no score correction considerations after the final exam.

Attendance Policy

General Attendance Policy

This course follows Purdue's academic regulations regarding attendance. Only the course instructors (professors) can excuse a student from a course requirement or responsibility. **If you must be absent, refer to the Absence module on Brightspace and take the relevant action steps. It is the responsibility of the student to understand the absence policies and the steps to take should they need to miss class for any reason.** Contact Mrs. Leah Everly (leverly@purdue.edu) with any questions or concerns related to course absences and makeup work.

Under academic regulations, excused absences may be granted by ODOS for cases of grief/ bereavement, military service, jury duty, parenting leave, or emergent or urgent care medical care (details below). These are the **only** excused absences in CHM 12901. To request makeup work or deadline extensions for excused absences, see the Absences module on Brightspace.

If you participate in a **NCAA sport**, you must contact Mrs. Leah Everly (leverly@purdue.edu) during the first two weeks of class (or receipt of letter) to discuss potential scheduling conflicts and use the Absence module on Brightspace to request makeup work.

To prevent the extent of scoring penalties that result from unexcused absences (illnesses, trips, conflicts, or other situations), the lowest score in each grade category (recitation (2), lab, HW, exam) is automatically dropped at the end of the semester. This includes internet or related technology issues that may have prevented you from completing a lab report, recitation quiz, or homework. Therefore, since we appreciate that unforeseen circumstances arise, a general response to individual situations in which an assignment is not submitted will be to use the allotted drops. Please contact our Course Coordinator, Mrs. Leah Everly (leverly@purdue.edu), if you have questions about this policy. Students with unexcused lab absences are eligible for one prearranged lab report make-up assignment, per student, per semester. Refer to the Absence Module on Brightspace for details. No other makeup work or deadline extensions (i.e. for prelab, recitation, HW, or exams) are possible for unexcused absences. Absence accommodations approved

by the **Disability Resource Center** will be handled individually. Contact Leah Everly (leaverly@purdue.edu) for more information.

Grief Absence Policy for Students (GAPS)

If you experience the death of a family member or close friend, fill out the form at <https://www.purdue.edu/advocacy/students/absences.html> as soon as possible. Refer to the Absence module on Brightspace for more information or alternatives.

Military Absence Policy for Students (MAPS)

If you are required to complete mandatory military training, fill out the form at <https://www.purdue.edu/advocacy/students/absences.html>. Refer to the Absence module on Brightspace for more information or alternatives.

Medically Excused Absence Policy for Students (MEAPS)

Students may occasionally have to miss class and other academic obligations due to hospitalization or emergency department visits, whether physical or mental health related in nature. This policy is intended for **emergent care only (note that visits to Urgent Care or PUSH are not longer included in this policy). Emergent medical issues are those that pose a threat to loss of life or limb** (e.g., serious burns, seizures, severe cuts requiring stitches, broken/dislocated limbs or joints, head injuries). The Office of the Dean of Students will not provide notes to instructors for primary care medical appointments or routine care (e.g., overall wellness, dental care, general behavioral health care) nor occasional symptoms (e.g., pink eye, colds, flu). A student should complete the Medical Excused Absence Request Form (<https://www.purdue.edu/advocacy/students/absences.html>) to request that an absence notification be sent to instructors. You will be given the opportunity to make up work missed due to a medical excused absence. Refer to the Absence module on Brightspace for more information on requesting makeup work or deadline extensions. Absences due to illness/injury not covered by MEAPS policies are addressed through our one free lab makeup as described above.

Course Schedule

Course Schedule is posted under the Brightspace **Content** Tab

Course Logistics

COURSE ACTIVITIES, POLICIES AND PROCEDURES

Lectures

Student versions of the lecture notes will be posted on Brightspace and can be filled during lecture. You are encouraged to either bring a hard copy or use a tablet or laptop to actively participate during lecture. The lecture files for the coming week will be posted to Brightspace by noon on the preceding Sunday. We will do our best to minimize last-minute changes to these slides, but we request your understanding if a situation arises for which we decide on necessary modifications (any such changes will be announced on Brightspace and updated slides will be posted). Completed lecture slides will not be uploaded to Brightspace. You will be responsible for any announcements or course changes that are made in lectures.

Exams

CHM 12901 will have 3 midterm exams at 1.5 hours each and a final exam of 2 hours. The exams will be in-person and your seating assignment will be shared on Brightspace. All exams will be administered synchronously, at the times shown below. Accommodations will be made on a case-by-case basis; see the Accessibility section of the syllabus.

Fall 2025 exam schedule:

Exam I: Tuesday, October 6 8:00 - 9:30 pm

Exam II: Thursday, November 5 8:00 - 9:30 pm

Exam III: Wednesday, December 2 8:00 - 9:30 pm

Final Exam: Time and Location To Be Announced - see below

Attendance at exams is required.

- You will receive zero points for missed exams.
- Unexcused absences will result in a zero.
- If you arrive more than 20 minutes late to an exam, you will not be allowed to take the exam. If you arrive within 20 minutes, you may take the exam, but will not receive additional time

- Absences are not excused except those documented by DRC or ODOS (GAPS, MAPS, MEAPS). Absences for required university-sponsored activities will be evaluated on a case-by-case basis. Your **one** lowest exam score will be dropped at the end of the semester to account for any other absence.
- All Absences must be processed through the Absence Module. Details of the policies and procedures are included in the module. If you have questions, contact Mrs. Leah Everly (leverly@purdue.edu) as soon as possible.

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Final Exam

The final exam is a 2-hour exam. Wait until you know the date of the final exam before you make travel plans that might conflict with the exam. Final exams will NOT be rescheduled to accommodate your travel plans. Please note that the instructors do not have discretion with respect to the time and place of the exam.

University policy on Final Exams states: *Students scheduled for more than two (final) examinations in one calendar day are entitled to reschedule any examination in excess of two. It is the responsibility of the student to make necessary arrangements before the last week of regularly scheduled classes.*

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On-Line Homework (ALEKS)

Each on-line weekly assignment, deployed via Brightspace on Monday mornings, will consist of required questions and possibly optional questions. Required questions will contribute to your homework point total, while optional questions will not. However, optional questions and tutorials can be used to help understand how to work problems or to practice and/review for exams. Assignments are to be completed online accessing ALEKS from the Brightspace page only: <https://purdue.brightspace.com/>.

Deadlines for completing the on-line assignments will be listed on the online Brightspace Assignment page. You will have a maximum of three (3) attempts per question per submission to complete each homework assignment before the listed due date. You will be able to submit each homework assignment TWICE. The AVERAGE of the two attempts will be used as your score for the homework. The question and/or answer content and order will be different upon subsequent attempts. Homework will be scored and recorded on-line so there will be no hand grading or re-grading of homework.

No time extensions are possible for homework assignments. If you miss the posted homework deadline, you will be able to continue working on the problems and your answers will be graded by the program, but you will not receive points for work done after the deadline. For help with technical issues, contact ALEKS customer service at 1-800-331-5094 or use the online form at: <https://mhedu.force.com/CXG/s/ContactUs>.

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Recitation is Required

CHM 12901 recitation sessions are required. You will be scheduled to attend one session; your assigned time and location can be found on your course schedule. You may only attend your designated recitation time and section.

Recitation problem sets will be accessed via Gradescope. Recitation sessions provide you with the opportunity to ask questions and work with your Teaching Assistant (TA) and classmates in smaller groups, as much as possible. You will have time to ask questions. Recitation sessions are not long enough to answer all the questions that all students may have. If you have difficulties or have questions about certain problems, you should seek help from your professor or a CHM 12901 Teaching Assistant (TA) during scheduled office hours.

You will receive a maximum of 15 points per recitation session; 12 points are allocated for effort on the worksheet and 3 are reserved for the weekly recitation quiz. Should you be unable to attend a recitation, the first option will be to drop that week's score; additional accommodations will be made on a case-by-case and need basis. You need to attend a minimum of 11/12 sessions – one is dropped at the end of the semester. We encourage you to submit the weekly assignment for feedback on the work and the opportunity for 12 points, but the weekly quiz points are only available for those attending recitation in person. Materials for recitation must be legible and submitted via Gradescope by the Sunday following that recitation, no later than 11:59 pm EDT.

Add/Drop Policies for General Chemistry Courses

Add Dates:

Effective Fall 2026, Deadlines to add General Chemistry Courses are as follows. All required actions must be completed by 4:59 PM EST on said deadline day.

- Friday of Week 1 (8/28): last day to add any course or switch sections *without instructor approval*
- Friday of Week 2 (9/4): last day to add any course or switch sections *with instructor approval*
- Friday of Week 3 (9/11): last day to switch to a lower Gen Chem course (e.g., 11510 to 11100, 12901 to 11100, 11610 to 11200) *with instructor approval*
- *Students who add CHM 12901 after classes begin must notify Leah Everly (leverly@purdue.edu) with 24 hours of adding the course in order to request any missed work.*

Dropping a Class:

- For CHM 12901 students, if you drop a corequisite Math class, you also must drop CHM 12901. After the end of Week 12, students can drop Math and stay in CHM 12901.
- University Drop dates are listed **at this link** for Spring 2026.

Dropping the Course/Lab Check-out:

If you drop the course by September 21, you do NOT need to formally check out of the laboratory. After that date, you MUST check out with your TA to avoid a penalty fee.

If you drop CHM 12901 after that date, it is your responsibility to check-out of your assigned drawer during the next scheduled lab period or during the regularly scheduled Check-Out. If you do not check out immediately, then go to lab at the regularly scheduled starting time during lab check-out as listed on the lab schedule and check out of your locker drawer. **You will need to be properly dressed for laboratory work and wear safety goggles through the entire check-out process (full description of proper dress appears later).**

Failure to Check-Out of Lab: For anyone who does not check out of a lab locker drawer by the scheduled or designated time:

- he/she will be charged a \$45 Failure to Check Out (FTCO) Fee and
- he/she forfeits the right to determine the acceptability of all locker drawer equipment, which may lead to additional penalties.

Academic Integrity

Your integrity is your greatest asset.

The professors in CHM 12901 view academic dishonesty (e.g. cheating) as a serious offense; we hope that cheating never arises as a problem in this course. The Office of the Dean of Students' publication, *Academic Integrity: a Guide for Students*, is an excellent summary of expectations for Purdue students and is available at: <http://www.purdue.edu/odos/osrr/academic-integrity/index.html>

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“Dishonesty in connection with any University activity may result in informal action or disciplinary sanctions. Cheating, plagiarism, or knowingly furnishing false information to the University are examples of dishonesty. The commitment of acts of cheating, lying, stealing, and deceit in any of their diverse forms (such as the use of ghost-written papers, the use of substitutes for taking examinations, the use of illegal cribs, plagiarism, and copying during examinations) is dishonest and must not be tolerated. Moreover, knowingly to aid and abet, directly or indirectly, other parties in committing dishonest acts is in itself dishonest.” *From University Senate Document 72-18.*

In CHM 12901, academic integrity means demonstrating your own work and thought processes at all times. Since many of our students are freshmen, we acknowledge that the adjustment to the college environment can be challenging. This requires, therefore, an attention and steadfastness to generating a strong trajectory for your tenure at Purdue and a commitment to learning about and maintaining the highest ethical standards that make us Boilermakers. We strongly encourage collaboration and group study but sharing your answers and work for the purpose of letting other students copy it is unacceptable. Using online resources such as Chegg to gain answers to homework or exam questions is not allowed. Instructors can obtain user information from Chegg when quiz or exam questions are posted there. For any exams in CHM 12901 that are virtual (on Gradescope), collaboration with others (such as Group Me, Zoom, Chegg, discussion boards, internet searches, text, in-person, etc.) is prohibited.

While the following list of examples of academic dishonesty is not complete, the examples

are provided for your information. If you have any questions at all about permissible behavior, ask before acting.

- Copying or possessing an unauthorized crib (written or electronic) during an exam.
 - Copying from another student's exam OR allowing another student to copy from your exam.
- Copying lab data or lab reports (part or all). This includes electronic files as well as paper copies.
- Not generating your own charts and graphs.
- Giving your lab report to someone else to copy.
- Changing data for a lab project to fit the perceived answer.
- Using or reporting someone else's data in a report as if it were your own.
- Working together on prelab exercises, but not putting the work in your own "style."
- Submitting a lab report or other work that you did not do.
- Copying and pasting any materials without appropriate citation.
- Using any portion of the lab manual *verbatim* (this is an example of plagiarism).
- AI/CHAT GPT use: "Students who use AI-generated writing for any portion of their assignments will be deemed in violation of the academic integrity expectations for this course." Violations can include a failing grade for the course and restrictions from further class attendance. All suspected incidents of academic dishonesty will also be referred to the Office of Student Rights and Responsibilities for further review of the student's status with the University, which may include being separated from the University." (from Cornerstone Integrated Liberal Arts, Purdue University)

In CHM 12901, academic dishonesty will result in progressive discipline for all academic dishonesty issues with progressive consequences from a score of zero for a portion or the entire assignment in question and a report to the Office of the Dean of Students. Academic dishonesty could result in a grade of "F" in the course plus a report to the Office of the Dean of Students. The progression of discipline will go as follows:

- First offense: will result in a 0 on plagiarized questions or portions of the assignments, up to the entire assignment in question.
- Second offense: will result in a 0 on the entire assignment in question and reporting to the Office of the Dean of Students.
- Third offense and beyond: will result in a grade of "F" in the course plus a report to the Office of the Dean of Students

Definitions: Plagiarism and unauthorized collaboration are prohibited in CHM 12901.

- **Plagiarism:** “using the exact language of someone else without the use of quotation marks and without giving proper credit to the author” or “stealing someone else’s ideas and presenting them as your own” (from ODOS brochure referenced above).
- **Collaboration:** working with someone or a group to produce something is *encouraged* and relied upon in a laboratory setting. The Final Report is an out of classroom example of authorized collaboration. However, assignments which are specifically identified as independent should not be performed collaboratively. This means you should not “divide and conquer” these assignments (for example, through the use of a shared GoogleDoc), or copy directly from another’s work. You may still *discuss* the questions and their answers with each other, but your answers should be clearly in your own words so as to demonstrate your intellectual contribution.
- **Unauthorized collaboration:** copying directly from another student’s work (e.g. prelab) or not contributing equitably to the group or pair’s effort in lab

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AI Policy

- AI/CHAT GPT use: “Students who use AI-generated writing for any portion of their assignments will be deemed in violation of the academic integrity expectations for this course. Violations can include a failing grade for the course and restrictions from further class attendance. All suspected incidents of academic dishonesty will also be referred to the Office of Student Rights and Responsibilities for further review of the student's status with the University, which may include being separated from the University.” (from Cornerstone Integrated Liberal Arts, Purdue University)

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Nondiscrimination Statement

Purdue University is committed to maintaining a community that recognizes and values the inherent worth and dignity of every person; fosters tolerance, sensitivity, understanding, and mutual respect among its members; and encourages each individual to strive to reach his or her potential. A hyperlink to Purdue’s full Nondiscrimination Policy Statement is included in the Academic Resources table on your Brightspace homepage.

Accessibility

Every member of our course should be able to access, use, and learn from the materials we share. This includes all course related digital content that you and I share in the course. This approach helps promote equal access for everyone at Purdue and is mandated federally by [Title II of the Americans with Disabilities Act \(ADA\)](#). We will work

together to provide this access within our Brightspace course.

- My part, as the instructor, is to make sure all course materials shared to Brightspace, such as documents, slides, videos and audio, and images, meet accessibility guidelines and to assist you in making sure anything you share is accessible. If we can do anything further to support your access to and engagement with course materials, please notify me.
- Your role, as a student, is to make sure anything you post for other students to engage with is also accessible, such as peer grading, peer feedback, and discussion board posts. This expectation is built into all course assignments that require you to post to Brightspace.
- A good starting place for students and instructors is to bookmark and review the [Innovative Learning Accessibility Checklist](#) for guidance on creating accessible materials. We need to work together to make sure all materials on our course Brightspace are accessible.
- If you select materials to share on our Brightspace from Purdue Libraries catalog or databases, best practices include choosing items that:
 - Can be downloaded in full
 - Are available in EPUB or HTML formats
 - Include alternative text for written materials or captions for audio/visual content

Accommodations

Disability Accommodations

Purdue University strives to make learning experiences accessible to all participants. If you anticipate or experience physical or academic barriers based on disability, you are encouraged to contact the Disability Resource Center at: drc@purdue.edu or by phone: 765-494-1247, as soon as possible.

If the Disability Resource Center (DRC) has determined reasonable accommodations that you would like to utilize in this class, you must send your Course Accommodation Letter. Instructions on sharing your Course Accommodation Letter can be found by visiting: <https://www.purdue.edu/drc/students/course-accommodation-letter.php>. Additionally, you are strongly encouraged to contact course instructors as soon as possible to discuss implementation of your accommodations.

Students are responsible for releasing their Course Accommodation Letter (CAL) to their course instructors as early as possible. Accommodations are not retroactive and

generally cannot be applied to coursework, exams, or other academic requirements that occurred before the CAL was released. Sufficient advance notice may be necessary to arrange and implement certain accommodations.

Testing Accommodations

Students who have approved testing accommodations and intend to use them in this course will complete accommodated exams through Purdue Testing Services (PTS). Students are responsible for following PTS procedures and submitting exam requests by the published scheduling deadlines, including for final exams when applicable. Additional information regarding PTS timelines and procedures can be found on their website: <https://www.purdue.edu/studentsuccess/testing-services/accommodated-testing/student.php>

Students should monitor their Purdue email and respond promptly to communications related to accommodated exam scheduling. Requests submitted after the published deadline are considered late, and implementation of testing accommodations for that assessment cannot be guaranteed. Late requests will be reviewed individually, but students should be prepared to complete the assessment without their approved testing accommodations if there is insufficient time or capacity to implement them. Approved accommodations remain in place for future assessments when scheduling requirements are met.

For CHM 12901, communications regarding accommodated exam scheduling will come from Melissa Roadruck at melissa@purdue.edu. Students should follow the instructions provided in those communications regarding scheduling through PTS.

Mental Health/Wellness Statement

If you find yourself beginning to feel some stress, anxiety and/or feeling slightly overwhelmed, try [Therapy Assistance Online \(TAO\)](#), a web and app-based mental health resource available courtesy of Purdue Counseling and Psychological Services (CAPS). TAO is available to all students at any time by creating an account on the [TAO Connect](#) website, or downloading the app from the App Store or Google Play. It offers free, confidential well-being resources through a self-guided program informed by

psychotherapy research and strategies that may aid in overcoming anxiety, depression and other concerns. It provides accessible and effective resources including short videos, brief exercises, and self-reflection tools.

If you need support and information about options and resources, please contact or see the [Office of the Dean of Students](#). Call 765-494-1747. Hours of operation are M-F, 8 a.m.-5 p.m.

If you find yourself struggling to find a healthy balance between academics, social life, stress, etc., sign up for free one-on-one virtual or in-person sessions in West Lafayette with a [Purdue Wellness Coach at RecWell](#). Student coaches can help you navigate through barriers and challenges toward your goals throughout the semester. Sign up is free and can be done on BoilerConnect. Students in Indianapolis will find support services curated on the [Vice Provost for Student Life](#) website.

If you're struggling and need mental health services: Purdue University is committed to advancing the mental health and well-being of its students. If you or someone you know is feeling overwhelmed, depressed, and/or in need of mental health support, services are available. For help, such individuals should contact [Counseling and Psychological Services \(CAPS\)](#) at 765-494-6995 during and after hours, on weekends and holidays, or by going to the CAPS offices in [West Lafayette](#) or [Indianapolis](#).

Emergency Preparedness

In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances beyond the instructor's control. Relevant changes to this course will be posted onto the course website or can be obtained by contacting the instructors or TAs via email or phone. You are expected to read your @purdue.edu email on a frequent basis.

See [Purdue's Information on Emergency Preparation and Planning](#). This website covers topics such as Severe Weather Guidance, Emergency Plans, and a place to sign up for the Emergency Warning Notification System. I encourage you to download and review the [Emergency Procedures Guide](#).

The first day of class, I will review the **Emergency Preparedness plan for our specific classroom**. Please make note of items like:

- The location to where we will proceed after evacuating the building if we hear a fire alarm.
- The location of our Shelter in Place in the event of a tornado warning.
- The location of our Shelter in Place in the event of an active threat such as a shooting.

Student-Related Policies

The Vice President for Ethics & Compliance website includes a list of [Student Policies](#). Among those is the [Violent Behavior](#) policy, which explains that Purdue is committed to providing a safe and secure campus environment for members of the university community. Purdue strives to create an educational environment for students and a work environment for employees that promote educational and career goals. Violent behavior impedes such goals. Therefore, violent behavior is prohibited in or on any University facility or while participating in any university activity.

Grade Appeals Process

At the end of the course, after final course grades have been assigned, students who believe their grade was assigned contrary to what is outlined in the course syllabus, has been assigned arbitrarily, or has been reduced too severely due to a violation of course academic integrity policies, may submit an appeal request to have this final course grade reviewed. The University's Grade Appeal Process is outlined in the University Catalog and is also referenced on the website for the [Office of Student Rights and Responsibilities \(OSRR\)](#).

Staff in the OSRR office are able to assist in determining if a Grade Appeal is appropriate. Generally, students should not expect a grade appeal to be successful if there is a lack of information to support the appeal or if the student merely thinks that the assigned grade is "unfair". Students must also attempt to resolve the matter informally with the course instructor prior to beginning the appeal process.

Basic Needs Program

If you are facing challenges securing basic needs such as food, housing, transportation, health services, or access to technology or childcare resources and believe this may affect your performance in the course, please contact the Office of the Dean of Students (ODOS) to help coordinate with community resources. These services vary by location. In West

Lafayette, see the [Basic Needs Program](#) website, or email basicneeds@purdue.edu. To connect with a Student Support Generalist on the Indianapolis campus, contact them by phone at 765-495-7797 or email studentlifeindy@purdue.edu.

Course Evaluation

Toward the end of this semester, you will be provided with an opportunity to give feedback on this course and your instructor. Purdue uses an online course evaluation system, and I will not have access to this anonymous feedback until after final grades are submitted. You will receive an official email from evaluation administrators with a link to the online evaluation site and will receive a prompt to complete the survey when you login to Brightspace. The subject line will be: Please take 2-5 minutes to complete the survey. Check your "Junk E-mail" folder occasionally to be sure the evaluation emails were not accidentally routed there. Your participation is an integral part of this course, and your feedback is vital to improving education at Purdue University. I strongly urge you to participate in the evaluation system.

This syllabus is subject to change. You will be notified of any changes as far in advance as possible via an announcement on Brightspace. Monitor your Purdue email daily for updates.

Laboratory Policies

Laboratories

Pre-lab: To ensure adequate preparation, you are expected to read the laboratory experiment, watch the instructional laboratory videos on Brightspace, complete the pre-lab safety quiz (2 points), and complete the pre-lab content quiz (5 points) before coming to lab each week. All of these materials can be found on Brightspace. Unannounced quizzes are possible if instructors find that many students are not preparing in advance for lab.

To be eligible for full credit, your pre-lab safety and content quizzes for the current week's lab is due by the Tuesday preceding the lab, no later than 11:59 pm EDT and should be submitted using BrightSpace. You will be given two attempts at the safety quiz. If you do not pass the safety quiz in your first attempt, we recommend you attend an office hour and

complete your second attempt. You will only receive one attempt for the content quiz.

Lab project completion: You are required to complete 9 of the 11 scheduled lab sessions to pass the course. Labs are completed by either attending lab and submitting a lab report, or by submitting an approved makeup lab following an absence. Attendance at Check-in and check-out is mandatory.

A failure-to-complete score (zero points) for lab will be assigned in the following cases:

- being dismissed from lab for safety violations including improper dress,
- arriving more than 10 minutes late,
- inadequate preparation for lab that hinders participation,
- not contributing constructively to the group's work in the lab,
- failure to submit a lab report, or
- not participating in preparation of the lab report.

Penalties for failure-to-complete labs are as follows:

- 1st fail-to-complete lab: a score of zero; can be dropped at the end of the semester as the lowest lab grade
- 2nd fail-to-complete lab: score of zero (will be included in calculation of total points)
- 3rd fail-to-complete lab: score of zero and a failing grade for CHM 129

Safety Certification: To be permitted to work in lab, you must complete the online safety certification found on Brightspace with a score of 20/25 or better. The first lab sessions will meet September 3 and 4; plan to complete your certification by 11:59 PM September 2. Make sure to access the Brightspace grade book to check your score. **You will receive a zero for each lab you miss due to an incomplete safety certification.**

Preparation: You are expected to arrive on time, properly dressed, and prepared for lab work. If you arrive at lab more than 10 minutes late or improperly dressed, then you will be considered unprepared to do the lab work and will be asked to leave the lab. **You will receive a zero for that lab and it will count as a failure to complete the lab.**

Working with a Lab Partner or Group: You will be working with a partner or group for most of the laboratory projects. One member of the group will upload a copy of the lab report to Gradescope, unless otherwise stated. It is critical that you work together to analyze data and prepare the lab report. You and your partner or group share the

responsibility for writing lab reports that honestly reflect your work. **You must include the names of everyone who participated in preparing the lab report or a deduction will incur.** If you are experiencing difficulties within your group, you should refer to your group contract, signed during the first week of lab, and notify your instructor early in the semester or as soon as possible so the issue may be resolved.

Lab Reports: Each laboratory report is due 11:59 pm the night before the next lab class, or as stated in Gradescope. Physical submissions will not be accepted; completed reports should be uploaded to Gradescope. All graphs must be computer-generated using a spreadsheet and graphing program such as Microsoft Excel or MatLab. Additional information about the format for lab reports will be provided in lab. Please ensure that figure legends, equations, and titles are legible.

Late Lab Reports: Fifty percent (50%) of the maximum points will be deducted from the score for all late lab reports (including those submitted in partial form that are later uploaded in complete form). No laboratory reports will be accepted and graded beyond 24 hours after the report is due.

Grading Criteria for Lab Reports: Your lab reports will be graded primarily on correctness and completeness. The following guidelines will apply:

- The report is complete.
- The report is organized correctly.
- The presentation is legible and logical. Headings and subheadings are used to identify or describe the contents of a particular section. Graphs and tables have titles to describe the contents.
- The data analysis and calculations have been done with the data your team collected during the lab period.
- The data analysis, including units of measurements and significant figures, are correct.
- Chemical terms and concepts have been used correctly throughout the report.
- Your conclusions and results are consistent with your data and calculations.
- Data are within acceptable error limits.

Questions about Lab Report Grades: If you have a question about the score on any of your lab reports, first ask your Teaching Assistant (TA) for clarification. If the Teaching Assistant (TA) cannot answer your questions, you may take the graded lab report to a lab supervisor for possible re-grading. You will need to do this within one week after the graded paper has been return via Gradescope. The entire lab report will be regraded, not

just the part where you think an error has been made.

Lab Ending Times: The Teaching Assistants (TAs) must close the laboratories promptly by the end of your scheduled lab period. At that time all equipment must be cleaned and put away, lab drawers locked and lab notes turned in (checked by your TA) so the lights can be turned out and the doors closed.

Safety Policies for Chemistry Labs: The safety of everyone in the active learning environment of a lab is taken seriously and your failure to comply with the safety regulations WILL affect your grade. Complying with safety regulations is simply a minimum requirement for being allowed to work and learn in a chemistry lab.

Safety Policies for Chemistry Labs

Compliance with the Safety Regulations is NOT a Matter of Personal Choice or Opinion.

Compliance is a REQUIREMENT.

Safety Goggles: You must always wear appropriate, splashless and approved safety goggles (not safety glasses) in the laboratory, including the day of check-out. You will be dismissed from lab and lose all credit for an experiment or lose your opportunity to check out if you do not wear your safety equipment as required. Safety goggles may be purchased at the local bookstores or the chemistry storerooms. Goggles may be stored in your laboratory drawer in a plastic bag with your name.

Appropriate Clothing: Chemistry department regulations state that you must wear clothing in the laboratory that protects your skin from your neck to your ankles and feet when you are sitting, standing or reaching. Shoes that cover your feet entirely are required. Your best option for chemistry lab attire is a t-shirt, jeans without holes, and sneakers with socks. **If you attend lab in unacceptable attire, you will be sent home and will receive a zero for the lab.**

Unacceptable clothing includes, but is not limited to: sleeveless, low-cut (i.e. below the collar bone), bare midriff or tank tops, see-through, transparent or sheer clothing, pants that are ripped or have holes in the fabric of *any* size that expose your skin, Capri pants, shorts, short skirts, tights, leggings/jeggings, tight exercise pants, open-toed and/or open-heeled shoes (including Crocs, Birkenstocks or other clogs), sandals (with or without socks), ballet flats, slippers, moccasins, or any shoe that doesn't cover the **entire top and heel** of your foot, with or without socks.

Proper Dress: See picture. If you attend lab in unacceptable attire, you will be sent home and will receive a zero for the lab.

Gloves: Gloves serve two purposes: they protect your skin from potential contaminants and keep any potential contaminants inside the lab. You will be required to wear protective gloves for many lab activities. When you leave a lab, take the gloves

off and throw them away. Get new gloves when you return to lab.

Contact Lenses: Contact lens wearers are encouraged to wear glasses in the laboratory. If you wear contact lenses in the laboratory, you must inform your Teaching Assistant (TA) of this at the beginning of the semester.

Hair: If your hair is longer than shoulder length you must tie it behind your head in order to avoid accidental contact with open flames or chemicals that might be on the lab bench. Rubber bands are available in the laboratory.

Food and Beverages: You may not eat, drink, or bring food into the laboratory.

Electronics: The only electronics allowed in the lab is that which is being used for instruction.

Handling and Disposal of Hazardous Materials: You will be required to follow the instructions printed in your lab manual or given to you by the Teaching Assistant (TA) or others for appropriate handling of hazardous materials and disposal of chemical waste.

Lab Clean Up: You are expected to promptly clean up spills and tidy the laboratory before leaving. Ask for help if you are unsure of proper cleaning procedures.

Lab Check-out: Formal check-out begins on September 23rd. This means that any students dropping the course on or before September 22nd can check-out by merely completing a form at the storerooms. Formal check-out requires each student to inventory the contents of their drawer and replace lost or unacceptable items (chipped, broken, etc.). All students must complete one of these procedures if they check-in to our laboratories. Failure to check-out can result in a \$45 fee plus the cost of all items replaced in the drawer.