



Purdue West Lafayette/Indianapolis
Department of Chemistry
General Chemistry II
CHM (WL) 11610
WL Fall 2026

Course Information

Meeting Locations, Days, Times

Lecture (in-person) Room: WTHR 200

Lecture Days and Times: Tuesdays and Thursdays, 1:30 pm

Recitation (in-person) Days and Times: Mondays (check your class schedule for your specific room and time)

Enrollment Details

- To enroll in the lab (CHM 11620 or 11630), students must be concurrently registered for the lecture (CHM 11610) or have already completed the lecture.
- Students who drop the lecture (CHM 11610) at any point during the semester are required to also drop the lab (CHM 11620 or 11630), if they do not have prior credit for the lecture (CHM 11610).
- Students can take the lecture (CHM 11610) without the lab (CHM 11620 or 11630).
- Students can remain in the lecture (CHM 11610) if they drop the lab (CHM 11620 or 11630).

Late Registration

If you register late or experience dropped enrollment, causing you to miss assignments,

notify the Supervisor TA no later than Friday, September 11 (end of Week 3) to request make-up assignments or deadline extensions.

University Drop Deadlines - Fall 2026

- **September 4 (end of Week 2):** last day to drop (cancel) CHM 11610 via myPurdue without it appearing on your record. *Note: if you drop CHM 11610, then you must also drop CHM 11620.*
- **November 24:** last day to drop (cancel) CHM 11610 with a "W".* *Note: if you drop CHM 11610, then you must also drop CHM 11620.*

**Submit request by using Scheduling Assistant.*

Chemistry Department Deadlines for Adding or Switching Sections - Fall 2026

- **August 28 (end of Week 1):** last day to add CHM 11610 or switch recitation sections *without* instructor approval.*
- **September 4 (end of Week 2):** last day to add CHM 11610 or switch recitation sections *with* instructor approval.*
- **September 11 (end of Week 3):** last day to switch from another CHM course to CHM 11610 *with* instructor approval.*

**Submit request by using Scheduling Assistant.*

Instructor(s) Contact Information



Name: Dr. John Nash (Instructor)

Email: jnash@purdue.edu

Office Phone Number: 765-494-0175 (messages checked infrequently; e-mail preferred)

Student Consultation Hours

Weekly office hour will be posted on Brightspace.

Additional Information

To avoid wasted time and duplicated effort, please do not e-mail multiple course or University personnel individually about the same issue; rather, send one e-mail addressed to multiple people. Allow up to two business days (M-F, 8 am - 5 pm) for a response from your instructor, Supervisor TA or TA. In general, we will not answer e-mail after business hours (M-F, 8 am - 5 pm). Please be patient in awaiting a response.



Name: Ms. Isabela Freitas (Supervisor TA)

Email: ifreita@purdue.edu

Office Phone Number: 765-494-5250

Student Consultation Hours

Weekly office hour will be posted on Brightspace.

Additional Information

Provides administrative support for recitation and other course components, and serves as a resource for TAs.

Course Description

Credit Hours: 3.00. A continuation of CHM 11510 (General Chemistry I). Topics covered can include solutions, quantitative equilibria in aqueous solutions, thermodynamics, oxidation-reduction and electrochemistry, chemical kinetics, qualitative analysis, and further descriptive chemistry of metals and nonmetals.

Prerequisites: Undergraduate level, CHM 11200, Minimum Grade of B or Undergraduate level, CHM 11500, Minimum Grade of D or Undergraduate level, CHM 12500, Minimum Grade of D or Undergraduate level, CHM 12901, Minimum Grade of D or (Undergraduate level, CHEM C1050, Minimum Grade of D and Undergraduate level, CHEM C1250, Minimum Grade of D) or (Undergraduate level, CHEM C1010, Minimum Grade of D and Undergraduate level, CHEM C1210, Minimum Grade of D) or (Undergraduate level, CHM 11510, Minimum Grade of D)

Course Learning Outcomes

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

1. Use theory to understand/predict experimental observations.
2. Demonstrate and understand key concepts and principles in chemistry, including the basic theory involved in chemical reactions, thermodynamics, equilibrium, and kinetics.

How to Succeed in this Course

It will take you at least two hours on your own for every hour we spend in class in order to study and learn the material. This means you will spend about 8-12 hours of distraction-free studying and working with chemistry each week. You may spend this time reviewing

and annotating your lecture notes, reading the text, doing homework, working practice problems, studying for exams, or other things. You may find yourself spending *more than* 8-12 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 perform well.

Before Lecture

- Review your notes from the previous lecture.
- Review the assigned reading and read the sample problems within the assigned section(s) of the textbook.

Use the textbook in ways that work best for you.

- Use the textbook as a reference when you study your lecture notes. Fill in any gaps and correct any information.
- Processing technical information will be more effective in the absence of Netflix, TVs, radios, earbuds, etc. Turn your phone on silent and set it aside/across the room.
- With technical material, the subheadings often carry important information. This is different from the chapter headings in a novel that usually contain no information.
- Read technical material (like your chemistry textbook) differently than you would read a novel. Read in short “chunks” and give yourself time to reflect and interpret the information presented. With technical material, it is often difficult to pick up the “story” in the second paragraph if you did not process the first paragraph.
- Try the problems in the textbook without looking at the solutions! If you have understood what you have read, then you should be able to do the problems. First, cover the solution and try the problem. Second, quickly look at the answer to see if you are correct. If your answer is incorrect, try re-reading the section to see if you missed anything. Third, look at your work again to find your mistake. Fourth, look at the solution of the problem presented in the textbook. The key is to force yourself to recall and apply material.

During Lecture

- Take notes!
- Write down each step of every problem or example even if you do not understand the step. You can always ask about it later.
- Try to answer all the questions and work all the problems that the instructor presents.

- 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.
- Periodically note the time in the margin of your notes so that you can quickly find a certain section of the lecture when you review the lecture recording.
- Turn off distractions (e.g., Netflix, homework, social media, etc.)

After Lecture

- Review your notes while things are still fresh in your mind.
- Listen to the lecture recording to fill in things that you missed.
- Attend TA office hours or e-mail your TA (allow 24 hours for a response) to ask questions and get help.
- Never miss lecture. Chemistry is cumulative. What is presented tomorrow depends upon your knowledge of what was covered today. If you miss class, then get a friend to take notes for you or take notes from the recording.

When Should I Do the Homework?

- 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 5-10 minutes, then go on to another problem. After a day or so, work related problems in the textbook.
- Review your class notes and the assigned section(s) in the textbook before you attempt any of your homework problems.
- Seek help from a TA during recitation, office hours or via e-mail (allow 24 hours for a response).

Practice, Practice, Practice!

- Read the Sample Problems in the textbook, then work one or both Follow-Up Problems and check your work at the end of the chapter.
- Work additional problems at the end of each textbook chapter. You can check answers for the problems with colored numbers in Appendix E.
- Look for similarities and differences in problems (e.g., homework questions, lecture examples). Classify problems by the type of knowledge that is needed to solve the problem.

Learning Resources, Technology & Texts

Chemistry: The Molecular Nature of Matter and Change

ISBN: 978-1-266-19923-3

Authors: M. S. Silberberg and P. Amateis

Publisher: McGraw Hill

Publication Date: 2024

Edition: 10th

Required Materials

Textbook: There are several options available for purchasing a paper and/or electronic version of the book, including purchasing a loose-leaf version with eBook directly from McGraw-Hill. You can choose whatever format (i.e., print, eBook, etc.) works best for you. See Brightspace for further information.

Achieve: In Chemistry 11610, you are required to complete homework online by using the Macmillan Achieve program. You can purchase instant access via the link on Brightspace or you can purchase a code from a local bookstore that you can then redeem via the link on Brightspace. ***You must register for Achieve by using your purdue.edu e-mail address.*** If you purchased multi-semester access for CHM 11510, then you do not need to purchase access again. Macmillan Customer Service can be reached at 1-800-936-6899 or <https://mhe.my.site.com/macmillanlearning/s/chat-with-us>.

Office 365: You can download the Teams/OneNote programs for free. Go to <https://www.itap.purdue.edu/shopping/software/product/office365.html> and log in by using your Purdue account.

iClicker Cloud: You will use the free iClicker Cloud app in lecture. Refer to the *Lectures* module on Brightspace for instructions.

Calculator: You may only use a simple, scientific calculator on exams. Calculators that can graph or solve or store equations are *not* allowed. See Brightspace (*Exam Information*) for details.

Sources of Help

General Chemistry Office

The General Chemistry Office (BRWN 1144; genchem@purdue.edu) handles all the

administrative details associated with the course. Direct all non-chemistry questions about the course to this office.

TA Office Hours

Chemistry 11610 TAs will hold office hours each week (schedule posted on Brightspace in the *Resources* module). You may attend the office hours of any TA in this course. Feel free to go to the office hours with a classmate or small group if you feel uncomfortable going alone.

Supervisor TA / Professor

The Supervisor TAs and Dr. Nash will also hold office hours each week. The schedule for office hours will be posted on Brightspace in the *Resources* module.

Supplemental Instruction (SI) (<https://www.purdue.edu/SI>)

There are Supplemental Instruction (SI) study sessions available for this course. These study groups are open to anyone enrolled in this course who would like to stay current with the course material and understand the material better. Attendance at these sessions is voluntary, but extremely beneficial for those who attend regularly. Students who attend these interactive sessions will find themselves working with peers as they compare notes, demonstrate and discuss pertinent problems and concepts, and share study and test-taking strategies. Students are asked to arrive with their student ID card, lecture notes and questions to these informal, peer-led study sessions. Please visit Brightspace to access information about connecting with SI sessions and SI Leader office hours.

Chemistry Resource Room

The staff in this area (WTHR 117B) can answer many of your chemistry-related questions but going to a Chemistry 11610 TA with your chemistry questions is recommended. The Chemistry Resource Room is also an area where you can study alone or with others.

[Academic Success Center](#)

Private Tutors

A list of private tutors (and their hourly rates) will be posted on Brightspace in the *Resources* module.

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.

Brightspace is the primary course management site for the course. Assignments, announcements, lecture slides, course materials, learning objectives, grades, and other course information will be posted on Brightspace.

Assignments

Your achievement of course learning outcomes will be assessed through a combination of lecture participation, homework, recitation quizzes and attendance and participation, three one-hour exams, and a final exam spread throughout the academic period.

During most weeks, you will have the following assignments. All assignments will be listed or linked on the course Brightspace page. Refer to details in the relevant sections that follow. Changes will be announced on Brightspace.

assignment	platform	day due	time due
homework	Achieve	Tuesdays	11:59 pm
pre-recitation quiz	Gradescope	Sundays	11:59 pm
upload completed recitation worksheet	Gradescope	Mondays	11:59 pm

Exams are a chance for you to demonstrate your understanding by answering conceptual questions and to demonstrate your skills by answering calculation questions. We aim for exams to be about half conceptual questions and about half calculation questions. Exams are worth approximately 63% of your final grade. All exam questions relate to one or more of the Learning Objectives posted on Brightspace, and other course materials. There will be three (one-hour) exams and a **comprehensive final exam** in this course.

exam	date	time
Exam I	Thursday, September 24	8:00 - 9:00 pm
Exam II	Thursday, October 22	8:00 - 9:00 pm

exam	date	time
Exam III	Thursday, November 19	8:00 - 9:00 pm
Final Exam	TBD	TBD

Reading Assignments and Learning Objectives

Weekly reading assignments will be posted on Brightspace. Reviewing the assigned material prior to lecture is recommended. Some of the material will be covered in lecture and some on your own.

Learning Objectives list the concepts you are expected to understand and the skills (calculations) you are expected to demonstrate for each topic covered in the course. They are posted in the *Learning Objectives* module on Brightspace. Exam questions will be based on the Learning Objectives.

Lectures

Lecture attendance is essential to learn the material presented. However, do not come to lecture if you are sick, have COVID-19 symptoms, or are directed to isolate or quarantine. Lectures are recorded on Boileercast. Access instructions are provided in the *Lectures* module on Brightspace.

Lecture attendance (participation) is recorded by answering iClicker questions during class. Attendance will be recorded for 18 unannounced, randomly-selected lectures. You will earn 4 points for each of these lectures, and only your best 15 scores will count toward your grade. To receive credit, you must attend in person, use a mobile device or laptop (iClicker remotes are not allowed), and answer at least one poll question. The iClicker mobile app is free through Purdue's site license. Instructions for setting up iClicker are available in the *Lectures* module on Brightspace.

An additional one point of extra credit will be awarded for each randomly-selected lecture where you answer the iClicker question *correctly*. You may earn up to 15 total points of extra credit, which will be added to your total points at the end of the semester.

Student versions of lecture slides will be posted on Brightspace. Note that these will be outlines of the lectures and are not a substitute for taking notes during lectures.

Recordings and screen captures of lectures may be viewed or downloaded by using the Boileercast link in Brightspace.

Cell phones, computers, and other electronic devices *not being used for instruction*

purposes are distracting for everyone in a learning situation. Computers can be used to take notes and follow lectures, but please respect your classmates by not using social media, texting, searching the internet, watching Netflix, etc. during class.

Talking aloud to classmates during lecture is distracting to other students and is disrespectful to the instructor. If you have a question, please ask, but otherwise remain quiet and allow the students around you the opportunity to pay attention.

If you have questions, please attend TA or instructor office hours (see the *Resources* module on Brightspace for schedules).

Recitation

Weekly recitation provides the opportunity for you to ask questions and work problems with your fellow students and TA.

Each week that recitation meets, a recitation packet will be posted on Brightspace. Before recitation, you should review the material and complete the warm-up questions.

Each week that recitation meets, there will be a pre-recitation quiz worth five (5) points on Gradescope. It will cover the material introduced in the recitation packet and is due at 11:59 pm on the night before recitation meets (i.e., Sunday).

Attendance at recitation is required. However, do not come to recitation if you are sick, have COVID-19 symptoms, or are directed to isolate or quarantine. If you have an *excused absence*, follow the instructions listed in the *Absences* module of Brightspace to request a make-up assignment for recitation attendance credit.

Recitation attendance (participation) is worth five (5) points per week that recitation meets. The one lowest recitation attendance score will be dropped at the end of the semester. Recitation attendance will not be recorded in Weeks 1, 3 (Labor Day), 8 (Octoberbreak) and 14 (Thanksgiving Break). Thus, the maximum number of points you can earn for recitation attendance is 55 (i.e., best 11 of 12 scores). **Note: you must arrive within the first 10 minutes of class for your attendance to count.** Each student is entitled to one “grace” late arrival during the semester.

Work on your recitation worksheet during class or finish it later, if needed. Submit the completed worksheet (PDF only) to Gradescope by 11:59 pm on the same day as your recitation (i.e., Monday). Each submission is worth five (5) points.

Take your textbook, homework, calculator, and/or any questions that you have regarding the course to recitation.

Note that it is not your TA's responsibility to provide you with answers to homework questions. Rather, they are expected to guide you to the correct solutions, help you identify mistakes, and add details to help you further understand concepts.

Homework

You will have a weekly homework assignment on the Achieve platform. **Unless otherwise stated, each homework assignment will be posted on Friday and will be due on the second Tuesday (at 11:59 pm) after it is posted (i.e., about ten (10) days after it is assigned).** All links and due dates will be in the *Homework* module on Brightspace.

Each question allows up to five attempts. For every incorrect attempt, the score for that question is reduced by 5% of its value. *Example:* on a 20-question assignment worth 10 points, each question is worth 0.5 points. If you answer a question correctly on the third attempt (i.e., after two incorrect attempts), you earn 0.45 points for that question. This policy is meant to encourage you to think carefully and do your best on your first try rather than relying on guessing.

A suggested strategy for solving homework problems includes the following:

- Start by trying the problem on your own, referring to class notes and/or the textbook.
- If your answer is incorrect, use Achieve's AI Tutor (see details below) - it's designed to guide your learning without giving away the answer.
- If you are still "stuck", stop by office hours or check out campus resources such as the Chemistry Resource Room (WTHR 117B) for additional help.

There will be fourteen (14) graded homework assignments in this course. Each homework assignment will be scaled to 10 points, for a total of 140 points. The one lowest homework score will be dropped at the end of the semester.

Achieve includes an AI-powered personalized homework tutor that can help you approach and solve homework problems. To read tips or provide feedback about the AI Tutor, click the "Get Tips and Share Feedback" button next to the AI Tutor button in your Achieve assignment. You should always cross-check AI guidance with your own notes, textbook, and Achieve's feedback. Keep in mind that AI can sometimes provide inaccurate or incomplete information.

No time extensions are possible for any homework assignments, except for excused absences. Allow plenty of time to do your homework and get the highest possible score. If you wait until the last minute, you risk the possibility of technical difficulties, illness, or other situations interfering with your success. If you have an *excused absence*, then follow the instructions listed in the *Absences* module on Brightspace to request a deadline extension.

Exams are likely to include questions taken from homework assignments. Copies of all homework assignments with unlimited attempts will be available after the due dates for study purposes.

Homework grades do not synchronize instantaneously with Brightspace. Also, do not be concerned if your grade updates before you finish the assignment. Be patient.

If you have difficulties accessing Achieve, then try the following: (1) only access Achieve through Brightspace; (2) use Chrome; (3) allow pop-ups.

Exams

The three (one-hour) exams

- will be administered in the evenings, on the dates listed below,
- will be on paper,
- are worth 145 points each,
- will consist of multiple-choice questions, and
- have a 60-minute time limit (unless you have extended time through the DRC).

If you have a conflict with another course (either a class or an exam), you must contact the Supervisor TA or the General Chemistry Office (BRWN 1144) at least one calendar week before the exam date to discuss your options. You may be asked to provide written verification of the conflict.

Useful information (formulas, conversion factors, Periodic Table, etc.) to be provided with each exam will be posted in advance on Brightspace.

You may only use a simple, scientific calculator on exams. Calculators that can graph or solve or store equations are not allowed. Note that there will be no “spare” calculators available during exams, and you may not share a calculator with another student. See Brightspace (*Exam Information* module) for additional details.

Exam questions will be based on the Learning Objectives.

You will have an assigned seat for each exam. Your seat assignment will be posted on Brightspace prior to each exam.

You should plan to arrive at least 15 minutes before the exam start time. You will also need to bring a simple, scientific calculator, several sharpened #2 pencils, and your student ID with you to each exam.

Your lowest exam score or $\frac{1}{2}$ of your final exam score will be dropped at the end of the semester.

If you have an excused absence and miss an exam, then e-mail the Supervisor TA as quickly as possible to arrange a make-up exam. No make-up exams are possible for *unexcused* absences.

After all eligible students have taken the exam, we will post the key on Brightspace. It is important that you review your mistakes and correct misconceptions because chemistry is cumulative, and topics build on previous topics. You may ask questions about exam content in recitation or in TA office hours. If you would like to review your exam with the Supervisor TA or the instructor, you must fill out the "Exam Debrief" form posted on Brightspace in the *Exam Information* module and e-mail it to them before requesting a meeting.

Final Exam

The final exam is comprehensive and is worth 290 points. The date, time, and format of the final exam will be communicated to you during the semester.

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.***

University policy on final exams states: "*Students scheduled for **more than two** (final) examinations in one calendar day are entitled to reschedule any examinations in excess of two. Similarly, students faced with a **direct** (final) exam conflict are entitled to reschedule either examination. The student is responsible for making the necessary arrangements **before the last week of regularly scheduled classes.***"

Grading Scale

Per the Purdue University Academic Regulations, the following grades shall be available to be assigned by the instructors and reported when they are called for by the registrar:

A+

A: Highest passing grade.

A-

B+

B

B-

C+

C

C-

D+

D

D-: Lowest passing grade; marginally passing minimal objectives of the course.

E: Conditional failure; failure to achieve minimum objectives, but only to such limited extent that credit can be obtained by examination or otherwise without repeating the entire course. This grade represents failure in the course unless and until the record is duly changed within one semester. It cannot be improved to a grade higher than D. (See section E.) When an instructor reports a grade of E, they shall file in the departmental office a statement of what is required of the student to receive the passing grade.

F: Failure; failure to achieve minimal objectives of the course.

The student must repeat the course satisfactorily in order to establish credit in it.

Grades and Grade Reports

Determining Your Course Grade

Each of the assigned course activities for CHM 11610 is worth the number of points listed below. Before course grades are finalized at the end of the semester, the following scores will be dropped:

- your one lowest homework score
- your three lowest lecture participation scores
- your one lowest pre-recitation quiz score
- your one lowest recitation attendance score
- your one lowest recitation worksheet completion/upload score
- your one lowest exam score or ½ your final exam score

graded activity	points	description
Homework	130	(best 13 of 14 at 10 pts. each)
Lecture Participation	60	(best 15 of 18 randomly-selected lectures at 4 pts. each)
Pre-recitation Quizzes	55	(best 11 of 12 at 5 pts. each)
Recitation Attendance	55	(best 11 of 12 at 5 pts. each)
Recitation Worksheet Completion/Upload	50	(best 10 of 11 at 5 pts. each)
One-hour Exams	435	3 at 145 pts. each
Final Exam	290	(comprehensive)
Sub-total	1075	
	-145	drop lowest exam or 1/2 final exam score, whichever is lower
Total	930	
Extra Credit	15	(answering lecture iClicker questions correctly)

The total points available for exams is 580. Your exam total will be determined as follows: your points earned on the Final Exam will be divided in half and considered as separate scores, "T4" and "T5", both of which are equal. For example, if you score 180/290 on the final exam, then your scores for T4 and T5 would each be 90/145. These scores will be compared with your scores on Exams 1 - 3 (e.g., "T1", "T2", "T3") and the lowest of these scores will be dropped (i.e., not counted into your total points earned). The remaining four scores will comprise your exam total points.

At the end of the semester, the total scores for all students will be arranged in numerical order, the score that corresponds to either the 99th or 98th percentile (S_{99} or S_{98}) will be determined, and then letter grades will be assigned based on this percentile score as follows:

A: Total Score $\geq 0.93 \times S_{99}$ (or S_{98})

A-: $0.90 \times S_{99}$ (or S_{98}) $\leq$ Total Score $< 0.93 \times S_{99}$ (or S_{98})

B+: $0.86 \times S_{99}$ (or S_{98}) $\leq$ Total Score $< 0.90 \times S_{99}$ (or S_{98})

B: $0.83 \times S_{99}$ (or S_{98}) $\leq$ Total Score $< 0.86 \times S_{99}$ (or S_{98})

B-: $0.80 \times S_{99}$ (or S_{98}) $\leq$ Total Score $< 0.83 \times S_{99}$ (or S_{98})

C+: $0.76 \times S_{99}$ (or S_{98}) $\leq$ Total Score $< 0.80 \times S_{99}$ (or S_{98})

C: $0.73 \times S_{99}$ (or S_{98}) $\leq$ Total Score $< 0.76 \times S_{99}$ (or S_{98})

C-: $0.70 \times S_{99}$ (or S_{98}) $\leq$ Total Score $< 0.73 \times S_{99}$ (or S_{98})

D+: $0.66 \times S_{99}$ (or S_{98}) $\leq$ Total Score $< 0.70 \times S_{99}$ (or S_{98})

D: $0.63 \times S_{99}$ (or S_{98}) $\leq$ Total Score $< 0.66 \times S_{99}$ (or S_{98})

D-: $0.60 \times S_{99}$ (or S_{98}) $\leq$ Total Score $< 0.63 \times S_{99}$ (or S_{98})

F: Total Score $< 0.60 \times S_{99}$ (or S_{98})

This system has several advantages because

- unlike a curved scale, it encourages cooperation among students because NO student is penalized when another is successful, and
- unlike an absolute scale, it tends to neutralize the effects of differences from one semester to another and thereby ensures that the same criteria are used to assign grades from one semester to another.

This approach to grading means that the grade you earn in this course depends primarily on your own effort and performance. It also ensures that all students who do well in the course will get good grades.

Periodically during the semester, your total points will be calculated, and your tentative letter grade to date will be posted so that you can see how well you are doing in the course.

You must check all of your grades on Brightspace regularly. If there are errors or discrepancies, notify the Supervisor TA within two weeks of a tentative grade cutoff update being announced. Grade issues that are brought forward after this deadline may not be considered, depending on the timing and situation.

Saving Graded Materials

You should save all of your graded materials until after you have received your final letter grade for the course. In order to resolve any discrepancies, your graded materials may need to be reviewed.

Attendance Policy

Links to Academic Policies and Regulations and Student-Related Policies can be found by scrolling all the way down on the Brightspace home page (not the CHM 11610 page).

This course follows Purdue's academic regulations regarding attendance. Only the course instructor (professor) can excuse a student from a course requirement or responsibility. If you are absent, refer to the information below and the *Absences* module on Brightspace and act accordingly.

You will be responsible for all information, including assignments, policy changes, schedule changes, etc., announced in lecture. Audio/document camera recordings of the lectures (Boilercast) will be accessible via Brightspace.

Excused Absences

Under academic regulations, excused absences may be granted by The Office of the Dean of Students (ODOS) for cases of grief/bereavement, military service, jury duty, parenting leave, or emergent medical care (for details, see below). To request make-up work or deadline extensions (homework, recitation) for *excused* absences, use the appropriate form in the *Absences* module on Brightspace.

Student athletes who miss class for NCAA travel should fill out the appropriate form in the

Absences module on Brightspace to request make-up work. A student athlete must submit their NCAA travel letter to the Supervisor TA to be eligible for make-up work.

For absences due to academic or professional development activities, students should contact the Supervisor TA at least one week prior to the absence for consideration and fill out the appropriate form in the *Absences* module on Brightspace. Documentation of the activity must be provided. Make-up assignments or deadline extensions may or may not be provided, depending on the nature of the activity (according to the judgement of the instructor).

Other absences will be considered on a case-by-case basis.

Unexcused Absences

To account for *unexcused* absences (e.g., illnesses, trips, conflicts, or other situations), the lowest score for each type of graded activity (lecture, recitation, homework, exam) is automatically dropped at the end of the semester. Lowest scores are also dropped to account for internet or related technology issues that may have prevented you from completing a lecture participation, recitation assignment, quiz or homework. No other make-up work or deadline extensions (i.e., for lecture, recitation, homework, or exams) are possible for *unexcused* absences.

Absence Accommodations

Absence accommodations, such as modified attendance, approved by the Disability Resource Center (DRC) will be handled individually. Contact the General Chemistry Office (genchem@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>. Scores for any missed assignments covered under a verified GAPS absence can be prorated (assigned a score based on your average grade for that type of assignment at the end of the semester) or you can make up the work. Refer to the *Absences* 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>. Scores for any missed assignments covered under a verified MAPS absence can be prorated (assigned a score based on your average grade for that type of assignment at the end of the semester) or you can make up the work. Refer to the *Absences* module on Brightspace for more information or alternatives.

Medical Excused Absence Policy for Students (MEAPS)

Students may occasionally have to miss class and other academic obligations due to hospitalization or emergency department visits. This policy is intended for **emergent care only (note that urgent care visits are no 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 who has experienced a medical emergency as described above should complete the Medical Excused Absence Request Form (<https://www.purdue.edu/advocacy/students/absences.html>) as soon as possible to request that an absence notification be sent to instructors. You will be given the opportunity to make up the work missed due to a medical excused absence. Refer to the *Absences* module on Brightspace for more information on requesting make-up work or deadline extensions.

If your illness is not a medical emergency, then your missed work will be handled by the dropped score policy. For special consideration, contact the TA Supervisor. For privacy reasons, we are prohibited from accepting medical documentation, so do not provide it to us.

Who to Contact for What Concern

What?	Who?
missed lecture	1. We record attendance at 15 of 18 randomly-selected lectures (i.e., we drop the lowest three scores, so there is no need to inform anyone). 2. Access the lecture recording ("Course Tools" -> "Kaltura Media Gallery"), and slides, on Brightspace.
missed homework, recitation, or other assignment due to an excused absence (i.e., emergency illness (MEAPS), death in the family (GAPS), or military leave (MAPS))	1. Complete an absence request with ODOS https://www.purdue.edu/advocacy/students/absences.html 2. Request make-up work, deadline extensions or prorated scores using the appropriate form under the Absences module in Brightspace.
exam conflict	E-mail the Supervisor TA at least one calendar week before the exam to see if you are eligible for a rescheduled exam.
missed an exam	E-mail the Supervisor TA to see if your absence is excused and if you can take a make-up exam.
homework issue	1. If you have a content (chemistry) question, then attend TA office hours (schedule on Brightspace) and ask for help. 2. For Achieve technical issues, use the form at https://mhe.my.site.com/macmillanlearning/s/chat-with-us 3. For other questions, e-mail the Supervisor TA.
Brightspace issue	Contact Purdue IT (see below).
DuoKey issue	Contact Purdue IT (see below).
Gradescope issue	Contact Purdue IT (see below).

Purdue IT Contact Information

- By phone: 765-494-4000
- By e-mail: it@purdue.edu
- Hours of operation: by phone and by e-mail, 24 hours a day, 7 days a week

Purdue IT Walk-up Service Desk Locations (for in-person help and Purdue Duo tokens)

- Hicks Undergraduate Library (HIKS); main floor near the Libraries Desk
- HSSE Undergraduate Library (HSSE); main floor of Stewart Center near the printers
- Wilmeth Active Learning Center (WALC); first and second floors

For hours, see: <https://it.purdue.edu/facilities/instructionallabs/resources/currenthours.php>.

Course Schedule

Week	Day	Date	Lecture Topic	Chapter^a
1	T	8/25	Introduction/Concentration Expressions	4, 13
	R	8/27	Thermodynamics: Entropy, Free Energy and The Direction of Chemical Reactions	20
2	T	9/1	Thermodynamics: Entropy, Free Energy and The Direction of Chemical Reactions	20
	R	9/3	Thermodynamics: Entropy, Free Energy and The Direction of Chemical Reactions	20
3	T	9/8	Thermodynamics: Entropy, Free Energy and The Direction of Chemical Reactions	20
	R	9/10	Equilibrium: The Extent of Chemical Reactions	17
4	T	9/15	Equilibrium: The Extent of Chemical Reactions	17
	R	9/17	Equilibrium: The Extent of Chemical Reactions	17
5	T	9/22	Equilibrium: The Extent of Chemical Reactions	17
**	R	9/24	Exam I: 8:00 pm - 9:00 pm; WTHR 172, BRNG 2280, ME 1130, WTHR 320	
	R	9/24	Kinetics: Rates and Mechanisms of Chemical Reactions	16
6	T	9/29	Kinetics: Rates and Mechanisms of Chemical Reactions	16
	R	10/1	Kinetics: Rates and Mechanisms of Chemical Reactions	16
7	T	10/6	Kinetics: Rates and Mechanisms of Chemical Reactions	16
	R	10/8	Kinetics: Rates and Mechanisms of Chemical Reactions	16

Week	Day	Date	Lecture Topic	Chapter ^a
8	T	10/13	NO LECTURE (Octoberbreak)	
	R	10/15	Kinetics: Rates and Mechanisms of Chemical Reactions	16
9	T	10/20	Acids & Bases	4, 18
**	R	10/22	Exam II: 8:00 pm - 9:00 pm; WTHR 200	
	R	10/22	Acids & Bases	18
10	T	10/27	Acids & Bases	18
	R	10/29	Acids & Bases	18
11	T	11/3	Acid-Base Equilibria	18
	R	11/5	Acid-Base Equilibria	18
12	T	11/10	Acid-Base Equilibria	18
	R	11/12	Acid-Base Equilibria	18, 19
13	T	11/17	Acid-Base Titrations	19
**	R	11/19	Exam III: 8:00 pm - 9:00 pm; MTHW 210, WTHR 172, BRNG 2280	
	R	11/19	Reduction-Oxidation Reactions	4, 21
14	T	11/24	NO LECTURE	
	R	11/26	NO LECTURE (Thanksgiving Break)	
15	T	12/1	Electrochemistry: Chemical Change and Electrical Work	21
	R	12/3	Electrochemistry: Chemical Change and Electrical Work	21
**	M	12/7	"Quiet Period" Begins	
16	T	12/8	Electrochemistry: Chemical Change and Electrical Work	21
	R	12/10	Electrochemistry: Chemical Change and Electrical Work	21

^aTextbook: *Chemistry: The Molecular Nature of Matter and Change*, 10th Ed., by M. S. Silberberg and P. Amateis.

Academic Integrity

From University Senate Document 72-18

"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."

All students are expected to be familiar with Purdue's policies on academic integrity (<https://www.purdue.edu/odos/osrr/academic-integrity/index.php>).

Students who observe an issue of academic integrity can report it to The Office of the Dean of Students (<https://www.purdue.edu/odos/> - use the General Incident Report to report anonymously), call 765-494-8778, or e-mail integrity@purdue.edu.

In Chemistry 11610, academic integrity means "doing your own work" at all times. Discussion of chemical concepts is encouraged, but sharing your answers and work on social media for the *express purpose* of allowing other students to copy it is not acceptable. Such a use of technology does not help you learn the material and is considered academic dishonesty.

All collaboration with others (such as Group Me, Zoom, discussion boards, web sites, text, in-person, TA office hours, etc.) during recitation quizzes is prohibited.

Using online resources such as Course Hero or Chegg to gain answers to any graded assignment (including homework, quizzes and exams) is *not* allowed. Posting course materials to web sites is a violation of copyright laws and is *not* allowed. The CHM 11610 instructor can obtain user information from Chegg and other sites when inappropriate course material is posted. This information will be investigated.

Consequences of academic dishonesty include receiving a lower or failing grade for an assignment, being required to repeat the assignment, receiving a lower or failing grade for the course and/or dismissal from the University. Incidents of academic integrity are referred to The Office of the Dean of Students. A student accused of academic dishonesty will be afforded due process as defined by Purdue University procedures.

This Course Packet is a contract between CHM 11610 students and the instructor. If a student violates the contract by committing an act of academic dishonesty, the instructor reserves the right to alter the terms of the contract (including grading policies) at his/her discretion.

Some examples of academic dishonesty are listed below. While this is not a complete list of examples of academic dishonesty, these examples are provided for your information. If you have any questions at all about permissible behavior, you should ask before acting.

- Copying or possessing an unauthorized crib or unauthorized information (written or electronic) during an exam or quiz.

- Copying from another student's exam, quiz or work; allowing another student to copy your exam, quiz or work.

AI Policy

The use of ChatGPT or other AI agents is not banned in this class; however, it should not take the place of your own writing, and you need to ensure that you also confirm facts that are generated, because these tools do not check the accuracy of your claims. If you use an AI agent, you must specify the agent used, the time and date used, the prompts used to generate text, the sections containing AI-generated text, and the ideas resulting from AI use.

Nondiscrimination Statement

We believe that every student in this course has something of value to contribute. Please take care to respect the different experiences, beliefs and values expressed by students and staff involved in this course. We are committed to the principles of diversity, and welcome individuals of all ages, backgrounds, citizenships, countries of origin, disabilities, education, ethnicities, family status, genders, military experiences, political views, races, religions, sexual orientations, socioeconomic status, and work experiences. If you have concerns or feel you have been subject to discrimination, please contact one of us so we can direct you to appropriate resources.

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 11610, 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

We care about your mental health. If you or someone you know is feeling overwhelmed, depressed, anxious, and/or in need of mental health support, please talk with your instructor, your TA, the supervisor TA, your advisor or other trusted person, or seek help from one of the resources below.

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 on Brightspace and shared via announcements and e-mail. 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](#).

Emergency preparedness is your personal responsibility. Purdue University is actively preparing for natural disasters or human-caused incidents with the ultimate goal of

maintaining a safe and secure campus.

- For any emergency, call 911.
- There are nearly 300 Emergency Telephone Systems throughout campus that connect directly to the Purdue University Police Department (PUPD). If you feel threatened or need help, push the button and you will be connected to the PUPD.
- If we hear a **fire alarm**, we will immediately evacuate the building. [During lecture, we will proceed to the area in front of Stanley Coulter Hall \(SC\).](#) [During lab, we will proceed to the area between Hovde Hall \(HOVD\) and Elliott Hall of Music \(ELLT\) \(basement labs only\) or the north entrance to the Armory \(AR\).](#) **Do not use the elevator!**
- If we are notified of a **Shelter in Place** requirement for a **tornado warning**, we will shelter in the lowest level of this building away from windows and doors. [Our preferred location is the basement of WTHR or BRWN \(lecture, recitation\) or CHAS \(lab\).](#)
- If we are notified of a **Shelter in Place** requirement for a **hazardous materials release**, we will shelter [in our classroom shutting any open doors and windows.](#)
- If we are notified of a **Shelter in Place** requirement for an **active threat** such as a shooting, we will shelter in a room that is securable preferably without windows. [During lecture, we will shelter in WTHR 200.](#) [During lab, we will shelter in the lab.](#)

“Shelter in Place” means seeking immediate shelter inside a building or university residence. If you hear the **All Hazards Outdoors Emergency Warning Sirens** or are notified via text or other means, immediately go inside a building to a safe location and use all communication means available to find out more details about the emergency. **Remain in place** until police, fire, or other emergency response personnel provide additional guidance or tell you it is safe to leave. There is no “all safe” siren; the notification will come via text, internet, or e-mail announcement.

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.