



Purdue West Lafayette/Indianapolis
Department of Chemistry
Gen Chem Honors
CHM (WL) 13600
WL Fall 2026

Course Information

Meeting Information: WALC 3148, WTHR 362

Meeting Day(s) and Time(s): F / 0830, MW / 0830

Professor: Adam Wasserman, WTHR-265G, phone: 494-4234, awasser@purdue.edu

Teaching Assistants: [Alvin Uppgård](mailto:auppgard@purdue.edu), auppgard@purdue.edu

[Aditya Verma](mailto:verma218@purdue.edu), verma218@purdue.edu

Class Schedule:

- **Lectures:** Monday and Wednesday: 8:30 - 9:20 AM, **WTHR-362**
Friday: 8:30 - 9:20 AM, **WALC-3148**
 - **Labs:** [Tuesday: 11:30 AM - 2:20 PM, CHAS-B025](#)
[Tuesday: 3:00 PM – 5:50 PM, CHAS-B025](#)
- **Voluntary Help Session (PSO):** [Thursday: 2:30 - 3:20 PM, BRWN-3100](#)
[Thursday: 3:30 – 4:20 PM, BRWN-3100](#)
- **Office hours:**
Alvin Uppgård: Thursdays 1:30 – 2:30 PM in **TBD**
Aditya Verma: Mondays 11:00AM – 12:00PM in **TBD**
Prof. Wasserman: Fridays 10:00 – 11:00 AM in WTHR-265G

Instructor(s) Contact Information

Name: Adam Wasserman

Email: awasser@purdue.edu

Office Phone Number: 7654942348

Student Consultation Hours

Fridays 10:00AM - 11:00AM in WTHR-265G

Course Description

Credit Hours: 4.00. A sophisticated treatment of the principles of chemistry. Atomic structure and bonding, spectroscopy, equilibria, thermodynamics and kinetics. Includes weekly laboratory experiments. Two years of high school chemistry recommended. Students with a grade of C or better in CHM 13600 who need 8 hours of credit in general chemistry may request credit for CHM 11500.

Prerequisites: Undergraduate level, MA 16100, Minimum Grade of D or Undergraduate level, MA 16300, Minimum Grade of D or Undergraduate level, MA 16500, Minimum Grade of D or Undergraduate level, MATH 16500, Minimum Grade of D or Undergraduate level, MA 16700, Minimum Grade of D

Course Learning Outcomes

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

1. Describe the most important properties of atoms and molecules; explain how energy quantization leads to periodicity of atomic properties and to different types of chemical bonds.
2. Explain how large collections of atoms or molecules develop some of the observed macroscopic properties of gases, liquids, and solids.
3. Outline the basic principles of thermodynamics and explain why and how they are central to life.

Learning Resources, Technology & Texts

General Chemistry

ISBN: 978-1-891389-60-3

Authors: D.A. McQuarrie, P.A. Rock, and E.B. Gallogly

Publisher: University Science Books

Publication Date: 211

Edition: 4th

- *Digital Materials:* Students enrolled in this course must purchase digital materials for lab and pay a Digital Materials Charge (\$TBD). The link to purchase access is here: <http://www.eventreg.purdue.edu/online/CHMFall35>.
 - Gradescope (www.gradescope.com) will be used for submitting Lab Reports. It will also be used for feedback from instructors.
-
- *Required Safety Equipment:* Approved chemical-splash safety goggles. Your splash-proof goggles must meet ANSI Z87.1:2020 (+D3) standards (you will need to bring these to the check-in lab on September 2).

Course materials including lecture notes, homework and problem sets discussed in class may not be distributed or posted on-line.

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

Laboratory Reports

Each student must turn in a short pre-lab at the beginning of every lab. Also, you must turn in a lab report that will be due prior to the beginning of lab one week from the day you did the experiment. Guidelines for writing the pre-labs and lab reports will be discussed during check-in lab on Sept. 1.

Late Laboratory Reports

For any lab report late no more than one week, 50% of the maximum points will be deducted from the score. Any late lab reports should be e-mailed to Alvin Uppgård

and Aditya Verma. If the lab report is more than a week late, it will receive a grade of zero.

Safety Certification

You must complete the online safety certification found on Brightspace with a score of 100% by **11:59 PM on Sunday, August 30th**. You must confirm your score in the Brightspace grade center by clicking the My Grades link. You will be sent home and will receive a zero for *each lab* you miss due to an incomplete safety certification.

Laboratory Notebook

You are responsible for maintaining a virtual laboratory notebook each time you are in the laboratory. Your graduate instructor will check this before you begin the experiment. Guidelines for the Laboratory Notebook, which will be run through Gradescope, will be discussed during Lab check-in on Sept. 1.

Homework and Reading

Homework gives you first-hand experience in solving problems to master the contents of this course. A list of assigned reading and homework problems from the textbook, and possibly from other sources, will be posted on Brightspace every Monday and will be due that same week on Friday at 8:30 AM. One of the two quiz questions each Friday will be taken directly from the homework (but homework itself will not be graded).

Quizzes

As many as fourteen 10-minute quizzes will be given (see schedule). Each quiz will consist of two questions: one question taken directly from the homework due that day and one question from the class notes for the week.

Final Presentation

Guidelines for the final presentation will be posted on Brightspace and explained in Week 5. Topics will be assigned on Friday, Sept.25. The written assignment should be turned in on Monday, November 30th, through Gradescope.

Exams

There will be two exams given in the evening during the course of the semester and a final exam given during Final Exam week. The date and time and location of each exam is given below.

Exam I 150 points Tues. **September 22, 8:00-9:30 PM, BRNG 2290**

Exam II 150 points Thur. **October 29, 8:00-9:30 PM, BRNG 2290**

Final Exam 300 points TBA**

***Wait until you know the date of the final exam before you make travel plans that might conflict with the exam. Early exams **will not be given** to accommodate your travel plans.*

No make-up quizzes, or exams will be given. We will not be evaluating reasons for exam absences and, therefore not prorating any exam scores (note that the lowest exam score will be dropped at the end of the semester but, if you miss two exams, the second missed exam will count as a zero toward your final exam grade).

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

Exams (2 @ 150 points each)	300
Final exam (300 points)	300
Total from exams (drop lowest midterm or half of the final)	
450	
Quizzes (14 @ 15 points each; drop 2 lowest)	
.....	180
Laboratory (11 reports @ 25 points each; drop lowest)	

250

Final

presentation 120

**Total
1000**

Grades:

Provided you complete a minimum of 9 labs:

980 – 1000 A+

900 – 980 A

850 – 900 A-

830 – 850 B+

770 – 830 B

750 – 770 B-

730 – 750 C+

670 – 730 C

650 – 670 C-

550 – 650 D

< 550 F

Regardless of the number of points achieved, a grade of F will be given to students who do not meet the requirement of completing a minimum of 9 labs.

No make-up work will be available for missed exams, quizzes, or labs.

Attendance Policy

It is expected that you attend all lectures. We don't take attendance in lectures but you will be responsible for any announcements or course changes that are made in lecture and you will be responsible, of course, for the content discussed in lecture. Quizzes will be given during the first 10 minutes of lecture on most Fridays (please refer to the syllabus). No make-up quizzes will be given.

Chemistry 13600 is a ***laboratory*** course and attendance in the laboratory is mandatory.

It is not possible to make up a missed lab. *Students who fail to complete, or miss **more than two** lab experiments will automatically earn a grade of “F”. Completion of an experiment includes completion and timely submission of a satisfactory laboratory report.*

Course Schedule

See detailed course schedule on Brightspace/Content/Schedule

Academic Integrity

Academic integrity is one of the highest values that Purdue University holds. Individuals are encouraged to alert university officials to potential breaches of this value by either emailing integrity@purdue.edu or by calling 765-494-8778. While information may be submitted anonymously, the more information that is submitted provides the greatest opportunity for the university to investigate the concern.

Cheating, including plagiarism, will be punished as severely as allowed under University guidelines. See the Office of the Dean of Students publication, Academic Integrity: A Guide for Students, which is available at <https://www.purdue.edu/odos/academic-integrity> and is an excellent summary of expectations for Purdue students.

- Having been found guilty of cheating can be as bad as having had a felony conviction when employers look over your college record. It is a serious offense, and students have been expelled from the University (and subsequently denied admission to another University) for cheating on exams, quizzes, or lab reports.
- Students caught copying a lab experiment, altering data on a lab experiment, turning in photocopies of laboratory data (i.e., graphs, data tables, calculations, etc.) or turning in a lab report or other work which they didn't do will face consequences ranging from a zero on the report to a zero in the lab for the entire semester. All 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.
- Students caught copying or with a written or electronic crib in their possession during an exam or quiz will fail the course. The Dean of Students Office will be informed of this action, which may result in their being expelled from Purdue.

Examples of academic dishonesty (Cheating): 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, save yourself some grief and ask before acting.

- Plagiarism in any form. Using the exact language of someone else without the use of quotation marks and without giving proper credit to the author is plagiarism.
- Copying or possessing an unauthorized crib (written or electronic) during an exam.
- Copying from another student's exam. Allowing another student to copy from your exam.
- Copying a lab report; giving your lab report to someone else to copy. This includes files on computer disks and websites as well as paper copies.
- Changing data for a lab project to fit the perceived answer (that is, what you think the answer should be).
- Using someone else's data as if the data were your own.
- Submitting a lab report or other work that you did not do.

Rudeness (*n.* The state or quality of being impudent. Synonyms: cheek, gall, audacity, boldness, insolence, impertinence, impudence, brazenness, disrespect, forwardness, sauciness)

The Oxford English dictionary defines *rude* as 1. Uneducated, unlearned; ignorant; characterized by ignorance or lack of learning. 2. Uncultured, unrefined, unsophisticated, ... also, uncivilized, primitive. 3. Inexperienced; inexpert, unskilled. 4. Ill-mannered, impolite; offensive or discourteous, esp. intentionally.

Rudeness won't be tolerated in this course. The professor in charge reserves the right to lower the letter grades of students exhibiting this behavior by as much, but not more than, one letter grade.

AI Policy

The use of ChatGPT or other AI agents is not banned in the 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 AI 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

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

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 my class, you must release your Course Accommodation Letter to me. Instructions on sharing your Course Accommodation Letter can be found by visiting: [How To Use Your Course Accommodation Letter](#). Additionally, you are strongly encouraged to contact me as soon as possible to discuss implementation of your accommodation.

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:

“Shelter in Place” means seeking immediate shelter inside a building or University residence. This course of action may need to be taken during a tornado, earthquake, release of hazardous materials in the outside air, active shooter, building intruder, or a civil disturbance. 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 email announcement.

In the case of a major campus emergency involving a shelter-in-place, **all** laboratory experiments will be halted while students shelter in lab. Students' lab grades will **not** be penalized in this situation.

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.