CHM 11600 - General Chemistry II

CRN: 10830

Lecture: M, T, W, Th 11-11:50 am, synchronous
Recitation: MW, W/F or T/Th, synchronous
Laboratory: Online, asynchronous
Credit Hours: 4.00

Prerequisites:

Instructor: Dr. Jeanine Conklin
jaconki@purdue.edu

Virtual Office Hours via Microsoft Teams: M, R: 9:00 AM - 10:00 AM

TA Supervisor: Ilayda Kelley (ikelley1@purdue.edu). Ilayda supervises the lab and recitation teaching assistants. She can assist you with all course materials.

Virtual TA Office Hours via Microsoft Teams as posted on BrightSpace

Recitation: Recitations are synchronous and meet Mon. - Fri. for 50 minutes, according to your class schedule

General Chemistry Office, BRWN 1144, 765-494-5250
Marlene Miller (marlenem@purdue.edu), Administrative Assistant, working remotely
Melissa Roadruck (melissa@purdue.edu), Administrative Assistant, BRWN 1144, 765-494-5252

The General Chemistry office handles ALL the administrative (non-chemistry) details associated with the course. Direct all non-chemistry questions about the course to this office. For example, contact us to discuss accommodations, to obtain grade checks, to discuss time conflicts to get clarification on course policies, to resolve grade issues, and to get signatures on university forms such as add/drop forms. We are able to help you with a variety of requests so you can maximize your success in general chemistry. We will work to do our best to help you with a variety of requests so you can maximize your success in general chemistry.

Communication
To avoid wasted time and duplicated effort, please do not email multiple course or university personnel individually about the same issue, rather send one email addressed to multiple people. Allow up to two business days (M-F, 8AM-5 PM) for a response from your instructor, head TA or TA. In general, we will not answer emails after business hours.
Course Description: Chemistry 11600 is a continuation of CHM 11500 (General Chemistry I). Topics studied include solutions; quantitative equilibria in aqueous solution; introductory thermodynamics; oxidation-reduction and electrochemistry; chemical kinetics; qualitative analysis; further descriptive chemistry of metals and nonmetals.

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

1. Use theory to understand/predict experimental observations.
2. Demonstrate an understanding of the physical properties and a molecular understanding of chemical reactivity and materials.
3. Document scientific information and experimental data and write scientific reports, with graphical presentation of data.

The course has been designed and structured so that in addition to the treatment of the concepts and topics listed above, there is a simultaneous emphasis on development of problem-solving skills. Online laboratories are scheduled weekly and offer an opportunity to reinforce and extend what is discussed in lecture, explore new topics, and to develop your knowledge of chemistry laboratory skills.

The Chemistry 11600 team—the instructor, coordinators, teaching assistants, administrative assistants, and preparations lab staff—are committed and focused on helping you learn chemistry. Please read on to learn about the required materials, lecture and recitation schedule, recommended ways to study, lab policies, grading, and other course policies and procedures.

Foundational Core: CHM 11600 meets the science requirement of the university’s foundational core.

Course Information
Brightspace ([https://purdue.brightspace.com/d2l/login](https://purdue.brightspace.com/d2l/login)) is the primary course management site for the course. Assignments, checklists, links to lectures, recitations and labs, announcements, learning objectives, grades, and other course information will be posted on Brightspace. All of the lectures and office hours will be conducted using Microsoft Teams Purdue Office 365 portal ([https://login.microsoftonline.com/](https://login.microsoftonline.com/)). It will be important for you to learn which site to use for which type of assignment.

Weekly Assignments
During most weeks, you will have the following assignments:

<table>
<thead>
<tr>
<th>Item</th>
<th>Platform</th>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prelab Quiz</td>
<td>Brightspace</td>
<td>Sundays &amp; Wednesdays</td>
<td>due 11:59 PM</td>
</tr>
<tr>
<td>Homework</td>
<td>Achieve</td>
<td>Thursdays</td>
<td>due 11:59 PM</td>
</tr>
<tr>
<td>Lecture Quiz</td>
<td>Achieve</td>
<td>Fridays</td>
<td>12:00 AM - 11:59 PM</td>
</tr>
<tr>
<td>Lab Report</td>
<td>Brightspace</td>
<td>Tuesdays/Fridays</td>
<td>due 11:59 PM</td>
</tr>
</tbody>
</table>

All assignments will be listed on the course Brightspace page and all to Achieve should be from Brightspace. Refer to details in the relevant sections that follow.

Required Materials
**Achieve Learning:** In CHM 11600, you are required to complete homework and quizzes online using the Achieve program. You can purchase instant access via the link on Brightspace ($42 for one semester access) or you can purchase a code from a local bookstore that you can then redeem via the link on Brightspace. If you bought multi-semester access for CHM 11500, then you do not need to purchase access again.

**Office 365** You can download Word, Excel & Teams programs for free. Go to https://www.itap.purdue.edu/shopping/software/product/office365.html and log in using your Purdue account.

**Digital Materials Charge:** Students enrolled in CHM 11600 must purchase digital materials for lab ($20). 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 Summer 2022 semester.

How to purchase the digital materials for lab:
1. Add the Chemistry Digital Materials to your cart.
2. Log in with your Purdue Career account to make the purchase.
3. Enter your credit card information and click submit. You will be required to make the payment and failure to do so may result in the charge being transferred to your account via the Office of the Bursar.
4. You will receive an email confirmation/receipt, which should be saved as proof of your purchase for future reference.
5. Purchasing will not immediately release the digital materials to you. Instead, the material will be released on a per lab basis on Brightspace.

**Protect Purdue Pledge**

“Being a part of the Boilermaker community means that each of us must take extraordinary steps to stay well and persistently protect each other, on campus and in the community. Accountable together, I pledge to take responsibility for my own health, the protection of others and help keep the Purdue community safe from spread of COVID-19 and other infections as identified and instructed by the university.” [https://protect.purdue.edu/pledge/](https://protect.purdue.edu/pledge/)

Any student who has substantial reason to believe that another person in a campus room (e.g., classroom) is threatening the safety of others by not complying (e.g., not wearing a mask) may leave the room without consequence. The student is encouraged to report the behavior to and discuss next steps with their instructor. Students also have the option of reporting the behavior to the Office of the Student Rights and Responsibilities ([https://www.purdue.edu/odos/osrr/](https://www.purdue.edu/odos/osrr/)).

**MENTAL HEALTH/WELLNESS STATEMENT**

If you find yourself beginning to feel some stress, anxiety and/or feeling slightly overwhelmed, try [WellTrack](https://welltrack.purdue.edu). Sign in and find information and tools at your fingertips, available to you at any time.

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 am-5 pm.

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 with a [Purdue Wellness Coach at RecWell](https://recwell.purdue.edu). Student coaches can help you navigate through barriers and challenges toward your goals throughout the semester. Sign up is completely free and can be done on BoilerConnect. If you have any questions, please contact Purdue Wellness at evans240@purdue.edu.
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 office on the second floor of the Purdue University Student Health Center (PUSH) during business hours.

CAPS also offers resources specific to COVID-19 on its website. Topics range from “Adjusting to the New Normal” to “How to Talk with Professors about Personal Matters.”

**BASIC NEEDS SECURITY**

Any student who faces challenges securing their food or housing and believes this may affect their performance in the course is urged to contact the Dean of Students for support. There is no appointment needed and Student Support Services is available to serve students 8 a.m.-5 p.m. Monday through Friday. Considering the significant disruptions caused by the current global crisis as it relates to COVID-19, students may submit requests for emergency assistance from the Critical Need Fund.

**DIVERSITY AND INCLUSION STATEMENT**

We strive for equity, providing equal access and opportunity, and working to maximize student potential. This requires both instructor and students to identify and remove barriers that may prevent someone from full access or full participation. You can help by:

- Contacting me, anonymously if needed, if you see a potential barrier for someone or yourself in participating fully in the class. This might be a physical barrier such as access to technology or a personal situation.
- Suggesting ways in which members of our class can support each other. Virtual study groups and discussion boards are examples, but I encourage you to be creative in your ideas.

Getting to know each other as contributing members of our learning community. Everyone has something to contribute, and while I designed the course to take advantage of the wealth of knowledge, expertise, and experience we bring together, I cannot do it well without your participation. There are many opportunities built into this course for this type of work. It is important we do it together.

**Disability Accommodations**

If you require accommodations to access course activities or materials, the accommodations must be described and approved by the Disability Resource Center, Young Hall Room 830, 302 Wood Street, 765-494-1247, www.purdue.edu/drc. To implement accommodations, you must follow the instructions in the letter provided by the Disability Resource Center, *in addition to* doing the following.

**Within the first three (2) weeks of the summer session or within one week of the date of the letter, you are required to** (1) electronically share a copy of your letter with the General Chemistry office (genchem@purdue.edu) or (2) schedule an appointment via email (genchem@purdue.edu) or (3) take a copy of your letter to the General Chemistry Office (BRWN 1144) during walk-in hours to discuss your accommodations. *Implementation of accommodations may not be possible if insufficient notification is given.*

**Emergencies**

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 CHM 11600 will be posted on Brightspace and shared via announcements and email.

You are expected to read your Purdue email on a frequent basis.
Purdue’s Honor Pledge
“As a Boilermaker pursuing academic excellence, I pledge to be honest and true in all that I do. Accountable together - we are Purdue.” https://www.purdue.edu/provost/teachinglearning/honor-pledge.html

Academic Integrity
All students are expected to be familiar with Purdue’s policies on academic integrity (https://www.purdue.edu/odos/academic-integrity/).

“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 11600, 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 letting other students copy it is not acceptable. Such a use of technology does not help you learn the material and is considered academic dishonesty.

Online quizzes and exams in CHM 11600 are open book and open note, however all collaboration with others (such as Group Me, Zoom, discussion boards, text, in-person, etc.) during a quiz or exam is prohibited.

Using online resources such as Chegg to gain answers to any graded assignment (including homework, labs, quizzes and exams) is not allowed. Posting course materials to websites is a violation of copyright laws and is not allowed. The CHM 11600 instructors 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. 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.

This course packet is a contract between CHM 11600 students and instructors. 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.

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 email integrity@purdue.edu.

Overview of CHM 11600 Activities and Policies

How to Study for CHM 11600
It will take you at least two hours on your own for every hour we spend online or 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 quizzes, 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 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, headphones, etc. Turn your phone on silent and set it aside.
- 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 book 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 book. 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 professor presents.
- Write a question mark next to things you do not 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 so that you can quickly find a certain section of the lecture when you review the lecture recording.
- Turn off distractions (i.e. Netflix, other HW, 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 you missed.
- Attend graduate instructor (TA) office hours 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 will miss class, then get a friend to take notes for you or get the 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, go on to another a problem. After a day or so, work related problems in the textbook.
• Review your class notes and the assigned pages in the textbook before you attempt any of your homework problems.
• Seek help from a TA during recitation, office hours or scheduled online meetings.

Practice, Practice, Practice
• Work additional problems at the end of each chapter that were not assigned as homework.
• Look for similarities and differences in problems (homework questions, lecture examples). Classify problems by the type of knowledge that is needed to solve the problem.

Sources of Help
There are several free sources of help for CHM 11600 students. See the Resources section on the course Brightspace page for details. Each instructor will hold office hours on Teams during the portion of the class they are teaching. Each TA will hold an office hour on Teams each week. You may attend the office hours of any TA in this course. Detailed schedules of instructor and TA office hours will be posted on Brightspace in the Resources module.

Supplemental Instruction (SI, www.purdue.edu/SI) is offered for CHM 11600. Please visit Brightspace to access information about connecting with SI sessions for your course(s).

We will use Piazza to answer most questions about course content and policies. Simply click the link (https://piazza.com/purdue/spring2021/chm11600) and join as a student. Content will be organized by assignment type (e.g. homework, lab) or course activity (e.g. lecture). Students can post questions and collaborate to edit responses to these questions. Instructors can also answer questions, endorse student answers, and edit or delete any posted content.

Reading Assignments and Learning Objectives
• Reading assignments are listed at the end of this packet and will also be provided in lecture and on Brightspace. Reviewing the assigned material prior to lecture and laboratory 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. Quiz questions will be based on the Learning Objectives.

Lectures
• CHM 11600 lectures will be broadcast live and recorded. Links will be posted on Brightspace.
• If you have questions, please take them to your recitation and/or office hours or schedule an online meeting with the course instructor or Head TA.

Recitation
• Twice weekly recitation provides the opportunity for you to ask questions and work problems with your fellow students and TA. Your questions are always the first agenda item, so come prepared.
• Recitation sessions are held M-F according to your class schedule.
• Recitations will be held online synchronously and recorded on Teams.
• Attendance at recitation is required. A Recitation participation assignment is due to
BrightSpace 2 hours after the completion recitation and is worth 5 points. If you miss recitation for any reason, you will have the opportunity to complete the assignment in BrightSpace but will not have the benefit of having your questions answered. Two recitation assignments scores will be dropped at the end of the session, i.e. you can miss 2 recitations without penalty to your grade.

- Have your textbook, lab materials, homework, calculators, and/or any questions you have regarding the course for recitation.
- Note that it is not your TA’s responsibility to provide you with answers to homework, pre-lab, or lab report 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 (Achieve)**
- You will have a weekly homework assignment on the Achieve platform, usually due on Thursdays by 11:59 PM. All links and due dates will be in the Homework module on Brightspace.
- You will have five attempts for each question in an assignment. There is no penalty for failed attempts.
- Each homework assignment is worth 15 points. The one lowest homework score will be dropped at the end of the session.
- No time extensions are possible for any homework assignments. 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.
- Quizzes are likely to include questions taken from homework assignments.
- For help with technical issues, contact Achieve customer service at 1-800-936-6899 or use the online form at [https://macmillan.force.com/macmillanlearning/s/contactsupport](https://macmillan.force.com/macmillanlearning/s/contactsupport). Chrome is the recommended browser for Achieve.

**Laboratory**
Laboratory projects are an integral part of CHM 11600 and are an opportunity for you to experience the chemical concepts discussed in lecture in a practical way. Digital lab materials (instructions, materials, and reports) will be provided on Brightspace. Pre-lab quizzes will be completed and Lab Reports will be submitted and graded on Brightspace.

**Laboratory Attendance and Participation**
Lab attendance is required since CHM 11600 is a laboratory course. There are no make-up labs or excused absences, except those that are verified as COVID-related or covered by the GAPS or MAPS policies (see p. 16).

If the Protect Purdue Health Center or the Indiana State Board of Health **directs you to quarantine or isolate and you miss a lab**, then you must contact your TA or Ilayda Kelley within **one week of the end** of your quarantine/isolation period. You must also forward your PPHC documentation to genchem@purdue.edu.

Failure to submit a lab report will result in a zero score (failure to complete).

**Pre-Lab Quizzes**
- The purpose of the pre-lab quizzes on Brightspace is to ensure that you have adequately prepared for the lab by reviewing the concepts and procedure.
- You have one, timed (10 minute) attempt for each quiz. The quiz will **automatically** submit after
10 minutes. Do not click “Begin” until you are ready to take the quiz because you cannot pause, exit, cancel, resume later, etc.

- For the best chance of success, take the pre-lab quiz (on Brightspace) after reading the lab materials and completing the prelab practice questions. You are encouraged to use the digital lab materials and your work for the prelab practice questions while taking the quiz.
- Quizzes are individual assignments. Collaboration with other students during the quiz is not allowed. (However, you are encouraged to work together in advance to complete the prelab questions.)
- Pre-lab quizzes are due each week on Sundays and Wednesdays by 11:59 PM.
- If you do not attempt the quiz before the time it is due, you will receive a zero for the quiz (out of 10 points). However, you can still earn points for the lab report (15 points).
- There are no make-up quizzes or time extensions. The two lowest prelab quiz scores are dropped at the end of the session to account for illnesses, technical difficulties, and other situations.

**Lab Reports**
- For each lab project, you will complete an individual lab report.
- Complete the lab report appropriately:
  - Answer in full sentences for open-ended questions.
  - Make sure your handwriting is clear and legible if you are using a stylus on a tablet or uploading photos of your handwritten notes.
  - Enter your answer(s) in the space(s) provided.
  - Label graphs and tables clearly.
  - Show calculation steps clearly for mathematical questions.
  - Show the use of correct units of measurement and significant figures.
  - Ensure results and conclusions are consistent with your data and observations.
- You are encouraged to access lab materials and notes while completing the reports. Also, you may discuss your report with peers and your TA, however you must do your own work (i.e. you should not copy each other’s answers).
- Lab reports are due each week on Tuesdays and Fridays and are submitted to Brightspace.
- The two lowest lab report grades will be dropped at the end of the semester.

**Lab Grades**
- Graded lab reports will be available for viewing approximately one week after submission. You are encouraged to review the graded work as your TA may have left useful feedback for your future improvement. If you have questions about a lab grade, speak with your TA or Ilayda Kelley within one week of the graded report being made available to you.
- Make sure you review lab content because the quizzes and/or exams will include lab-related questions.

**Quizzes**
Quizzes are a chance for you to demonstrate your comprehension of the weekly course material. There will be 7 quizzes this session. See the schedule at the end of this packet and on Brightspace.

Quizzes:
- are worth 10 points each
- consist of multiple-choice and numeric entry (calculations) questions
• have one attempt, i.e., must be completed in one sitting; do not start the quiz until you are ready
• have a 30-minute time limit. (Slightly more time than you need is provided in case of connectivity issues. Students with extended time through the DRC will be accommodated.)
• are open/available for a 24 hour period, i.e., 12:00 am midnight – 11:59 pm (ET). This time period may be adjusted due to course circumstances.
• usually due on Fridays by 11:59 PM

• Quizzes are open book and open note, however all collaboration with others (such as Chegg, Group Me, Zoom, discussion boards, internet searches, texting, talking in-person, etc.) during a quiz is prohibited. Consequences of academic integrity violations can include failing the course and in some cases removal from the university.
• The lowest quiz score will be dropped (i.e. not included in your total points) at the end of the session.
• Zero scores caused by absences that are GAPS/MAPS/COVID diagnosis-related will be handled individually. See pp. 15-16. Contact Dr. Conklin or Melissa Roadruck (melissa@purdue.edu) with questions.

Exams
There will be two exams during the session, each worth 150 points. The dates and content of the exams will be discussed in the Lecture. Exams are held during the lecture time and will be monitored over Teams with video on.

Final Exam
The final exam is comprehensive and is worth 150 points. The format of the final exam will be communicated to you during the semester.

The final exam is open book and open note, however all collaboration with others (such as Chegg, Group Me, Zoom, discussion boards, internet searches, texting, talking in-person, etc.) during an exam is prohibited. Consequences of academic integrity violations can include failing the course and in some cases removal from the university.

Determining Your Course Grade
Each of the assigned course activities for CHM 11600 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 two lowest recitation participation scores
  • your two lowest pre-lab quiz scores
  • your two lowest lab report scores
  • your one lowest quiz scores

The total number of points for CHM 11600 will be distributed as follows:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>90 pts (best 6 of 7 assignments at 15 pts each)</td>
</tr>
<tr>
<td>Recitation Participation</td>
<td>50 pts (best 10 of 12 at 5 pts each)</td>
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<tr>
<td>Prelab Quizzes</td>
<td>110 pts (best 11 of 13 at 10 pts each)</td>
</tr>
<tr>
<td>Lab Reports</td>
<td>165 pts (best 11 of 13 at 15 pts each)</td>
</tr>
<tr>
<td>Quizzes</td>
<td>60 pts (best 6 of 7 at 10 pts each)</td>
</tr>
<tr>
<td>Exams</td>
<td>300 pts (2 exams, 150 pts each)</td>
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<tr>
<td>Final Exam</td>
<td>150 pts (comprehensive)</td>
</tr>
<tr>
<td><strong>Sub-total</strong></td>
<td>925 pts</td>
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</table>
At the end of the session, the total scores for all students will be arranged in numerical order, the score that corresponds to the 99th percentile ($S_{99}$) will be determined, and then letter grades will be assigned based on this percentile score as follows:

A: Total Score $\geq 0.93 \times S_{99}$
A−: $0.90 \times S_{99} \leq \text{Total Score} < 0.93 \times S_{99}$
B+: $0.86 \times S_{99} \leq \text{Total Score} < 0.90 \times S_{99}$
B: $0.83 \times S_{99} \leq \text{Total Score} < 0.86 \times S_{99}$
B−: $0.80 \times S_{99} \leq \text{Total Score} < 0.83 \times S_{99}$
C+: $0.76 \times S_{99} \leq \text{Total Score} < 0.80 \times S_{99}$
C: $0.73 \times S_{99} \leq \text{Total Score} < 0.76 \times S_{99}$
C−: $0.70 \times S_{99} \leq \text{Total Score} < 0.73 \times S_{99}$
D+: $0.66 \times S_{99} \leq \text{Total Score} < 0.70 \times S_{99}$
D: $0.63 \times S_{99} \leq \text{Total Score} < 0.66 \times S_{99}$
D−: $0.60 \times S_{99} \leq \text{Total Score} < 0.63 \times S_{99}$
F: Total Score $< 0.60 \times S_{99}$

This system has several advantages:

- Unlike a curved scale, it encourages cooperation among students because NO student is penalized when another is successful.
- 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 get 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 session, your total points will be calculated, and tentative grade cutoffs will be posted so that you can see how well you are doing in the course. Note that these tentative grade cutoffs will be based on an absolute (90/80/70/60) grading scale (i.e., earning 90% of the maximum possible points is an A, 80% is a B, etc.).

- Check all your grades on Brightspace regularly. If there are any errors or discrepancies, notify the lecture coordinator within 2 weeks of a grade update being announced.

- Save all returned graded papers until after you have received your course letter grade for CHM 11600. To resolve any discrepancies, your paper(s) will need to be reviewed.

UNIVERSITY AND COURSE POLICIES

**Attendance and Absences**

Students should stay home and contact the Protect Purdue Health Center (765-496-INFO) if they feel ill, have any symptoms associated with COVID-19, or suspect they have been exposed to the virus. In the current context of COVID-19, in-person attendance will not be a factor in the final grades, but the student still needs to inform the instructor of any conflict that can be anticipated and will affect the submission of an assignment or the ability to take an exam.

If you become quarantined or isolated at any point in time during the semester, in addition to support from the Protect Purdue Health Center, you will also have access to an Academic Case Manager who can provide you academic support during this time. Your Academic Case Manager can be reached at acmq@purdue.edu and will provide you with general guidelines/resources around communicating with your instructors, be available for academic support, and offer
suggestions for how to be successful when learning remotely. Importantly, if you find yourself too sick to progress in the course, notify your academic case manager and notify Melissa Roadruck (melissa@purdue.edu). We will make arrangements based on your particular situation. The Office of the Dean of Students (odos@purdue.edu) is also available to support you should this situation occur.

Only the instructor can excuse a student from a course requirement or responsibility. When conflicts can be anticipated, such as for many University-sponsored activities and religious observations, the student should inform the instructor of the situation as far in advance as possible. For unanticipated or emergency conflict, when advance notification to an instructor is not possible, the student should contact Melissa Roadruck (melissa@purdue.edu) as soon as possible.

When the student is unable to make direct contact with the instructor and is unable to leave word with the instructor’s department because of circumstances beyond the student’s control, and in cases of bereavement, quarantine, or isolation, the student or the student’s representative should contact the Office of the Dean of Students via email (odos@purdue.edu) or phone at 765-494-1747.

At least one lowest score in each category (lab report, prelab quiz, HW, or quiz) is/are dropped at the end of the semester to account for absences due to illnesses, trips, conflicts, or other situations that are not excused absences. This includes internet or related technology issues that may have prevented you from completing a lab report, prelab quiz, homework, or quiz. If you have concerns about how an absence will affect your course grade, contact your instructor or Melissa Roadruck (melissa@purdue.edu) at the time of the absence. Verified grief, military, and COVID-related absences are the only excused absences in CHM 11600.

Absence accommodations approved by the Disability Resource Center 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, notify the Office of the Dean of Students (ODOS) at 765-494-1747. Scores for any missed assignments covered under a verified GAPS absence will be pro-rated (assigned a score based on your average grade for that type of assignment). Contact Dr. Conklin for more information.

Military Absence Policy for Students (MAPS)
If you are required to complete mandatory military training, notify the ODOS to request that a notice of the leave be sent to instructors. Scores for any missed assignments covered under a verified GAPS absence will be pro-rated (assigned a score based on your average grade for that type of assignment). Contact Melissa Roadruck (melissa@purdue.edu) for more information.

Changing Sections/Adding/Dropping

<table>
<thead>
<tr>
<th>UNIVERSITY DEADLINES – Summer 2022</th>
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<tbody>
<tr>
<td>Fri., Jun 17: Last day to cancel (drop) a course without it appearing on your record.</td>
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<td>Fri., Jun 24: Last day to cancel (drop) a course without a grade.</td>
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<tr>
<td>Wed., Jul 13: Last day to cancel (drop) a course (with a passing or failing grade).</td>
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Late Registration: If you register late, notify the Dr. Conklin no later than Friday June 24 to see about the possibility of making up missed assignments.

Disclaimer: This syllabus/course packet is subject to change. Students will be notified of any changes via Announcements on Brightspace, and/or email.
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