In CHM 11200, General Chemistry II, the following topics will be covered:

- Intermolecular forces; solutions and their physical properties.
- Rates of chemical reactions, known as kinetics, and the quantitative application of zero-order, first-order, and second-order kinetics concepts to understand the factors that control rates of reaction.
- Acids, bases, and buffers. Many disciplines use these concepts and chemists have developed different kinds of models to describe acids and bases. We will focus on acid-base reactions, equilibria, and the application of quantitative equilibrium concepts to such reactions. Buffers have important applications in agriculture and in health sciences which will be explored
- Oxidation-reduction reactions and strengths of oxidizing and reducing agents.
- An overview of organic compounds.

The Chemistry 11200 team—the professor, graduate teaching assistant, administrative assistants, and general chemistry preparations lab—are committed to helping you learn chemistry. Please read on to learn about the required materials, lecture and lab schedule, recommended ways to study, lab policies, grading, and other course policies and procedures.

Course Learning Objectives will be provided in lecture and on Blackboard.

BRWN 1144, The General Chemistry Office, 49-45250 The General Chemistry office handles all the administrative details associated with the course. Any non-chemistry questions about the course can be directed to this office. For example, go to BRWN 1144 to get grade checks, to discuss exam conflicts, to get clarification on course policies, to resolve grade issues, to change your schedule (during weeks 2 and 3 only), and to obtain signatures on university forms such as add/drop forms. Administrative Assistants Ms. Marlene Miller and Ms. Melissa Roadruck are able to help you with a variety of requests so you can maximize your success in general chemistry.

Course Information Blackboard Learn: https://mycourses.purdue.edu/
Lecture outlines, reading assignments, announcements, and other course information are available on the course Blackboard page. We recommended you visit it often.

***For additional information, including Purdue University Policies, Sources of Help, Ways to Study Chemistry, and Safety Policies, see the “Course Information” folder on the course Blackboard page.***
**Required Materials**

**Textbook:** The textbook I have chosen for you this semester is Chang, Chemistry, 13th edition (ISBN: 9781259911156). I have also chosen the McGraw-Hill Connect online homework program for our homework platform this year. When you purchase Connect it includes an electronic copy of the textbook, Chang, Chemistry, 13th edition (ISBN: 9781260694420). You can purchase Connect from the University bookstores or directly through McGraw-Hill (it’s cheaper directly from McGraw-Hill because the bookstore adds a small markup to the McGraw-Hill price). If you would like a physical textbook (loose-leaf version) as well, you must purchase Connect directly through McGraw-Hill online (ISBN: 9781260694857). If you are using an old book (any edition) you will still need to purchase access to the Connect program and that will automatically include an electronic copy of the text. A link on the course Blackboard page will direct you to the McGraw-Hill site where you can make your purchases. *Students who completed CHM 11100 in Fall 2018 or Spring 2019 already have the necessary Connect access.*


**Calculator:** A simple battery operated scientific calculator with exponential, logarithm and square root functions will be needed for exams. Two-line non-programmable calculators are allowed. Alpha-numeric and programmable calculators will NOT be allowed for exams.

**Lab Materials:** The Chemistry 11200 Laboratory Manual, a Sharpie™ (black, permanent ink) for marking lab glassware, a padlock for your assigned lab drawer, an electronic storage device for lab data, and approved safety goggles, available at the bookstores or from the storeroom on the 1st floor in BRWN.

**Week #1 Assignments:**
- Purchase required materials (see above).
- Register for your CONNECT account.
- Read all the information in this course packet.
- Begin the first Connect weekly homework assignment.
- Read the Reading Assignments and Learning Objectives (on Blackboard).
- Complete the safety certification available on the course Blackboard page with a score of at least 20/25. You will complete your safety certification during lab check-in on June 11. *You must complete AND pass your safety certification before you can work in lab on 6/13/19.*
- Attend recitation, lecture, and laboratory check-in.

**Weekly Assignments:**
*(Also refer to the “Some Ways to Study Chemistry” on the course Blackboard page.)*
- Attend lecture, recitation, and lab.
- Complete the reading assignment *before* lecture (see lab/lecture schedule, pp. 14-15).
- Complete your Connect homework assignment (due each Sunday at 11:59 pm).
- Prepare for lab: read the relevant lab manual chapter, do the textbook reading assignment for lab (see lab/lecture schedule), and complete the pre-lab exercises including the lab procedure outline.
Overview of CHM 11200 Activities and Policies
***For more detailed information, see the course Blackboard page. ***

How to Study for CHM 11200  (written by Dr. John Nash and Dr. Marcy Towns)
It will take you at least two hours out of class for every hour we spend in class in order to study and learn the material. This means about 8-12 hours of distraction-free studying and working with chemistry each week. You may spend this time working on your lecture notes, reading the text, studying the required material, doing homework, 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 study and do well.

Before Class
- Complete the assigned reading (given in lecture) and review your notes from the previous class.

During Class
- 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 that the professor 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.

After Class
- Review your notes while things are still fresh in your mind.
- Check your text in order to understand those items that you did not understand and marked in lecture. If necessary, use graduate instructor (TA) office hours to help you.
- Never miss lecture. Chemistry is cumulative. What is presented tomorrow depends upon your knowledge of what was covered today. If you will miss class, then get a friend to take notes for you or get the notes from the Boilercast recording.
- Listen to the Boilercast lecture recordings on Blackboard to fill in things you missed.

Read Differently
- 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've 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.
- Read technical material in a "distraction free" environment. Processing technical information will be more effective in the absence of TVs, radios, headsets, etc. Turn your phone off!
- Read and interpret subheadings. With technical material, the subheadings often carry important information. This is different from the chapter headings in a novel which usually contain no information.
- Use the textbook as a reference when you study your lecture notes. Fill in any gaps and correct any information.
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 problem. Seek help from a graduate instructor (TA) the next day during office hours. After a day or so, work related problems in the textbook.
- Read the assigned pages in the textbook before you attempt any of your homework problems.

Practice, Practice, Practice
- Work additional problems at the end of each chapter which 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 free sources of help for CHM 11200 students, including professor office hours and TA office hours (BRWN 1106). Find more information in the “Resources” folder on Blackboard.

Reading
See the lecture schedule for the reading assignments. Reading the assigned material prior to lecture and laboratory is expected. Some of the material will be covered in lecture and some on your own. Reading assignments and learning objectives will also be posted on Blackboard.

Lectures
- Student versions of the lecture notes will be posted on Blackboard prior to each lecture. These are not verbatim copies of the lectures, but are outlines of the lectures. Audio recordings and video capture of lecture slides can be downloaded from the Boilercast website (http://www.itap.purdue.edu/tlt/BoilerCast/).
- You will be expected to participate in problem-solving activities during lecture. These will generally be conducted in small group within the lecture and provide you more opportunities to interact with the concepts and communicate your understanding.
- Cell phones, computers or other electronic devices not being used for instruction purposes are distracting for everyone in a learning situation. Please respect your classmates and turn off your cell phones and iPods in lectures as well as in recitations and labs. Computers can be used to take notes and follow lecture, but you should not be using Facebook, texting, etc. during class. Talking out loud to classmates during lecture is distracting to other students and is disrespectful to the lecturer. If you have a question please ask, but otherwise remain quiet and allow the students around you the opportunity to pay attention.

Homework (CONNECT) and LearnSmart
Each week you will have an online homework assignment in CONNECT which will consist of required questions and possibly optional questions. Required questions will contribute to your homework point total, while optional questions will not. However, optional questions and tutorials can be used to help understand how to work problems or to practice and review for exams. A few homework problems often appear as questions on exams.

In addition to the Connect homework questions you will also have LearnSmart assignments for each chapter that we cover this semester. LearnSmart is an adaptive learning program that will test and retest your understanding of the key concepts in each chapter. Your grade for LearnSmart assignments is based on completion. The concepts covered in the LearnSmart assignments are directly related to the learning objectives that you will be tested on during exams.

Deadlines for completing the on-line assignments will be listed on the online CONNECT Assignment page. Homework will usually be available on Monday mornings and due the following
week on Sunday at 11:59 pm, 7 days after it is assigned. You will have a maximum of three attempts to complete each homework question before the listed due date. Homework will be scored and recorded on-line and there is no hand grading or regrading of homework. No time extensions are possible for homework or LearnSmart assignments unless there is a class-wide technical problem.

**PSO (Practice, Study, Observation)**
Your teaching assistant facilitates a bi-weekly recitation designed to help you understand laboratories that week and to discuss any questions you may have from lecture or the homework. You will have time to ask questions and check your homework and pre-lab answers so take your homework questions and lab manual with you to recitation.

**Laboratory**
Laboratory exercises are an integral part of CHM 11200 and are an opportunity for you to experience, in a hands-on way, the chemical concepts discussed in lecture.

- **Lab attendance is required** since CHM 11200 is a laboratory course. There are no make-up labs or excused absences. Scores for approved GAPS or MAPS absences will be prorated. Contact the lecture coordinator for more information.
- You are required to complete 10 of the 12 scheduled lab projects to pass the course. If you fail to complete three or more lab projects, an automatic grade of “F” will be assigned for the course at the end of the semester. **The bottom line is that if you miss three or more labs for any reason you’ll earn an F in the course.**
- **A failure to complete** (zero score) will be assigned in the following cases:
  - being absent for any reason (except GAPS or MAPS approved absences)
  - being dismissed from lab for an incomplete Safety Certification (score <20/25)
  - being dismissed from lab for safety violations, including improper dress and goggle infractions
  - arriving more than 10 minutes late
  - leaving lab early or otherwise not completing the lab project and/or report
  - inadequate preparation that hinders lab participation
  - not contributing constructively to the group’s work in lab
  - not participating in preparation of the lab report or failure to submit a lab report
- **You must complete the online safety certification found on Blackboard with a score of 20/25 or better by 11:59 pm on Wednesday, June 12, 2019.** Please confirm your score in the Blackboard grade center (My Grades link). If you have less than a 20/25, or do not complete the required safety certification you will not be allowed to work in lab. You will receive a zero for each lab missed until the certification is completed. If you fail to complete three or more labs you will fail the course.
- Before lab, read the experiment and attend recitation to help you prepare.
- Complete the pre-lab exercises and prepare an experimental procedure in your lab notebook before coming to lab. Pre-labs are due at the beginning of the lab period.
- Arrive on time, properly dressed, and prepared for lab work.
Laboratory policies

- The Chemistry Department transitioning to shared drawer system. You will be sharing an assigned laboratory drawer of equipment with the students in your row. Students in CHM 11200 have a history of functioning as a responsible community. Thus, we decided to make this course one of the first to use shared laboratory equipment. Your lab partners will depend upon your commitment to keeping the equipment clean and in good working condition.
  - You and your lab partners will have the opportunity to assess the equipment during check-in day. Any equipment that is un-useable i.e. dirty, chipped, cracked, stained, broken, etc., is replaced for free during check-in.

After check-in day:

- It is important that you do your part to maintain the drawer throughout the semester by cleaning all the pieces of equipment after use by washing with hot water, soap, and a brush, rinse with tap water, then rinse with deionized water (it's a 3-step process to get the glassware clean and you will have better experimental results with clean glassware).

- If you are responsible for a piece of equipment becoming un-useable i.e. the piece becomes chipped, cracked, stained, broken, etc., you must go to the storeroom (immediately) and purchase a replacement.

- Should you discover that a piece of equipment is missing, first check with the other students in your row and the lost and found box. If the piece is still missing, your group must replace it immediately. The storeroom staff can split the cost of a replacement among all or any number of lab partners.

- Often times, pieces of equipment are broken accidentally; for instance, a thermometer rolls off the bench and breaks. Replacing the thermometer is still the responsibility of the group and the storeroom staff can split the cost of a replacement among the lab partners.

- Finally, you will be using the supplied university lock all semester on the drawer (you don’t need an individual lock). Your TA will open the drawer before lab each week. You may store personal items in the drawer, such as goggles, but you should label everything with your name.

- Everyone must check-out of the assigned drawer by the last scheduled laboratory or they will be charged a fee of $45 plus the cost of any equipment that is un-useable or missing. If you change sections, drop the course or withdraw from the university, you must check-out of your lab drawer. After week four of the semester, you can only check-out during your scheduled laboratory time.

- If you arrive at lab more than 10 minutes late or improperly dressed, will be asked to leave the lab and will receive a score of zero. This counts as one of your “fail to complete” labs.

- Endeavor to work as an effective member of the team.

- Complete the lab report appropriately:
  - Use pen and write neatly.
  - Label graphs and tables.
  - Use the data you collected for the calculations and analysis.
  - Use correct units of measurement and significant figures.
  - Use chemical terms and concepts correctly.
  - Ensure results and conclusions are consistent with your data and observations.

- Lab reports are due before leaving lab the day lab work is completed and the lab is closed, that is 10:50 am. Submitting a completed lab report is required for you to receive a lab grade.
• Graded lab reports will be returned one week after they are submitted. If you have questions about your grade, speak with your lab instructor or the lab coordinator.

• Academic integrity is a key issue in lab and we support and affirm the academic integrity policies of Purdue in accordance with the policies and definitions outlined at the link below. If you are suspected of an integrity issue you will be asked to meet with the course professors and graduate teaching assistant in charge of laboratory. Either during or after the meeting the consequences will be communicated to you. These consequences may include receiving a zero on the pre-lab or laboratory, contacting your advisor or program coordinator, and/or being reported to the Office of the Dean of Students for further discussions about academic integrity at Purdue. We strongly encourage you to be careful in guarding your own academic integrity and protecting your work! Sharing your work or stealing work of any student, past or present, by taking pictures of it and sharing it through a website or app (texting, groupme, etc.) is not appropriate and will result in disciplinary action. http://www.purdue.edu/odos/osrr/academic-integrity/index.html

Lab Safety
Students’ safety in the laboratory is a priority and everyone is required to comply with the following safety regulations. Failure to comply will result in being sent home from lab with a score of zero, which counts as a lab absence. These are departmental policies required because of federal regulations.

• Follow all lab safety regulations (see below).

• Dress appropriately (see below). Refer to the detailed information on the course Blackboard page or on the previous page for what constitutes proper dress for the laboratory.

• Goggles are required at all times in the laboratory, including during report-writing and lab check-out. If you are in lab and your goggles are not covering your eyes, you will be sent home and will receive a zero for the lab and the lab report (failure to complete).

• Wear gloves when specified. Nitrile (non-latex) gloves are provided in the laboratory.

• If your hair is longer than shoulder length you must tie it behind your head.

• Contact lens wearers are encouraged to wear glasses in the laboratory.

• Food and beverages are never allowed in the labs. (This includes water bottles.)

• Follow your instructor’s guidance on appropriate handling of hazardous materials and disposal of chemical waste.

• Promptly clean up spills and tidy the laboratory before leaving.

• Proper dress (clothing and shoes) is required. Chemistry department regulations state that your clothing must cover you from your neck (collarbone) to your ankles when sitting, standing or reaching. Your feet must be completely covered by your shoes.
If you attend lab in unacceptable attire, you will be sent home and will receive a zero for the lab (failure to complete).

*Unacceptable* clothing includes, *but is not limited to:*

- tops that are sleeveless, low-cut or V-neck (below the collar bone), bare midriff or tank-style
- see-through, transparent, or sheer clothing
- pants that are ripped or have **holes** in the fabric of any size
- tights or thin (translucent or transparent) **leggings**
- Capri or cropped pants
- shorts
- skirts (unless they extend to the floor)
- open-toed and/or open-heeled shoes (including Crocs, Birkenstocks or other clogs)
- sandals (with or without socks)
- boat shoes, ballet flats, slippers, moccasins, or **any shoe that doesn't cover the entire top of your foot, with or without socks**

If you come to lab wearing anything in the list above, you will be sent home and you will receive a zero for that lab.

► Your best option for chemistry lab attire is a crew neck t-shirt, jeans without holes, and sneakers with socks.
Exams
Exams are a chance for you to demonstrate your comprehension.

Summer 2019 hourly exam schedule:

<table>
<thead>
<tr>
<th>Exam I:</th>
<th>Wednesday</th>
<th>June 26, 2019</th>
<th>In Class</th>
<th>GRIS 126</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam II:</td>
<td>Wednesday</td>
<td>July 17, 2019</td>
<td>In Class</td>
<td>GRIS 126</td>
</tr>
</tbody>
</table>

*Final Exam: time and place to be announced – see below*

- Attendance at exams is required. There are NO make-up exams and absences are not excused except those covered by the GAPS and MAPS policies. You will receive no score (zero points) for any missed exams.

- Scores for approved GAPS/MAPS absences will be handled individually. Contact the lecture coordinator or Dr. Lang for more information.

- If you have a direct conflict with another exam, class, or required university activity, contact the General Chemistry office (BRWN 1144) **at least one week before the conflict**. You will be asked to provide written verification of the conflict. According to university regulations a student is entitled to reschedule one of two conflicting exams and instructors shall not penalize a student who chooses to reschedule an exam under these conditions. In the event the student is unable to reach an agreement with the course instructors to reschedule one of the exams, the student will contact the Office of the Registrar; the Registrar will make the final decision as to which exam is to be rescheduled and offered at an alternate time; the Registrar will communicate this decision to the course instructor and relevant department head. If an emergency occurs, contact the General Chemistry office (BRWN 1144) as soon as possible.

- Hour exams are 60 minutes in length. You should arrive at least 15 minutes before the exam start time. If you arrive more than 15 minutes late for an exam, you will not be allowed to take the exam.

- Bring an appropriate calculator (see details on the front page). You may not share a calculator with another student.

- Regrade policy for exams with free response items:
  - **Deadline:** If the exam is handed back in lab, then you must turn in your regrade request accompanied by a regrade request form available in the general chemistry office (Brown 1144) by the end of your lab period. Staple the regrade request form to the front cover of your exam and hand it in to Brown 1144. Note that the regrade procedure is intended to correct for serious errors in grading. If there was an arithmetic error in adding up points, simply note the error on the front of the exam and turn it in to Brown 1144 – this is not a regrade request, it is a **core adjustment**.
  - Any indication that a regrade has been requested for a modified exam (meaning the exam was modified after it was graded and has been turned in for a regrade) will be considered a breach of academic integrity and will be reported to the Office of the Dean of Students. The student will automatically fail the course. Note that a random sample of the examinations have been scanned or photocopied before they have been returned.
  - **What merits a regrade**
    - *Your answer is the same as the one on the key, but the grader didn’t realize it.* Your explanation should make it clear why you believe your answer is the same!
    - *Your answer is different from the one provided on the answer key, but your answer is also correct.* Your explanation should make it clear that you have read the answer key, and why you think your answer is also correct.
Final Exam

- The final is a 2-hour comprehensive exam. Time and place will be announced.
- 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 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 examination in excess of two. It is the responsibility of the student to make necessary arrangements before the last week of regularly scheduled classes.”

Determining your Course Grade, Summer 2019

Each of the assigned course activities for CHM 11200 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 lowest homework score
- your lowest lab score

The total number of points for CHM 11200 (1000) will be distributed as follows:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>150 pts</td>
</tr>
<tr>
<td>Labs</td>
<td>275 pts</td>
</tr>
<tr>
<td>Exams (2 at 147.5 pts each)</td>
<td>295 pts</td>
</tr>
<tr>
<td>Final Exam (comprehensive)</td>
<td>280 pts</td>
</tr>
</tbody>
</table>

If you miss more than 2 of 12 labs, your course grade will automatically be an F. Except for approved GAPS or MAPS leaves, there are no excused absences in CHM 11200.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>875 pts and above</td>
</tr>
<tr>
<td>B</td>
<td>775 – 874 pts</td>
</tr>
<tr>
<td>C</td>
<td>675 – 774 pts</td>
</tr>
<tr>
<td>D</td>
<td>575 – 674 pts</td>
</tr>
<tr>
<td>F</td>
<td>0 – 574 pts OR if you have fail-to-complete scores for more than 2 of the 11 scheduled lab projects (i.e. if you miss more than 2 labs, your course grade is automatically an F).</td>
</tr>
</tbody>
</table>

Extra Credit: You can earn up to 100 points (68% of one exam grade!) as extra credit by attending lecture on a regular basis. Each lecture, of which there will be 25 lectures counted in total for the extra credit system (not including introduction day, exam dates, holiday, and no lecture-day), will offer you an additional four points (2 points attending, 2 points participating in activities throughout lecture). Make sure to use this option and attend and participate regularly!

- Check your grades on Blackboard Learn after each exam. If there are any errors or discrepancies, notify Dr. Lang within 1 week of the exam.
- Save all returned graded papers and your exams until after you have received your course letter grade for CHM 11200. To resolve any discrepancies, your paper(s) will need to be reviewed.
COURSE ACTIVITIES, POLICIES AND PROCEDURES

Studying Chemistry
Expect to spend at least 6-9 hours per week on chemistry outside of the normal class time. This time includes preparing for lecture, paying attention and taking notes during lecture, reviewing your notes after lecture, and completing homework, reading, and lab assignments.

Sources of Help
There are several free sources of help for CHM 11200 students, including professor office hours, TA office hours, SI sessions with Kayli Decocker and JJ Carroll, and the Chemistry Resource Room, WTHR 117B. Further sources of help can be found on the “Important Purdue Resources Handout” on the Purdue University Foundations of Excellence page at http://www.purdue.edu/foundationsofexcellence/.

Changing Sections/Adding/Dropping

**UNIVERSITY DEADLINES – Summer 2019**

**Sun., Jun 16:** Last day to cancel (drop) a course without it appearing on your record.
**Fri., Jun 21:** Last day to cancel (drop) a course without a grade.
**Wed., Jul 10:** Last day to cancel (drop) a course (with a passing or failing grade).

**Late Registration**  If you register late, notify Dr. Lang no later than Friday, June 21 to see about the possibility of making up missed assignments.

**Lab Drawer Check-Out**  If you drop CHM 11200 after having checked into a lab drawer, it is your responsibility to check-out of your assigned drawer during your scheduled lab period. Failure to check-out of lab will result in your padlock being cut, a $45 fee, and forfeiture of the right to determine the acceptability of all locker drawer equipment.

If you change sections after you check into a locker drawer, you must check out of your old locker drawer before checking into a drawer in your new section.

Campus Emergencies

In the event of a major campus emergency, course requirement, 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 11200 will be posted on the course Blackboard site or can be obtained by contacting the instructors via email or the General Chemistry office at 765-494-5250.

- **“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 emergency response personnel provide additional guidance or tell you it is safe to leave. There is no “all safe siren;” notification will come via text, internet, or email.
- 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.
Disability Accommodations
If you require accommodations to access course activities or materials, the accommodations must be described and approved by Disability Resource Center, Young Hall Room 830, 302 Wood Street, 494-1247, www.purdue.edu/drc. To implement accommodations you must follow the instructions listed as "Responsibilities of the Student" in the letter prepared by the Disability Resource Center. Take a copy of this letter to the General Chemistry Office (BRWN 1144) within the first three (3) weeks of the semester or within one week of the date of the letter to discuss your accommodations. Letters must be received in BRWN 1144 at least one week before an exam to be eligible for accommodations (unless your letter is dated within a week of the exam).

Academic Integrity Statement and Consequences.
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.” Please read http://www.purdue.edu/odos/osrr/academic-integrity/index.html

Purdue Honors Pledge
We support and affirm the academic integrity of Purdue in accordance with the Purdue Honors 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

Mental Health
Purdue University is committed to advancing the mental health and well-being of its students.

- If you find yourself beginning to feel some stress, anxiety and/or feeling slightly overwhelmed, try WellTrack, https://purdue.welltrack.com/. 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 see the Office of the Dean of Students, http://www.purdue.edu/odos, for drop-in hours (M-F, 8 am-5 pm).

- 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 and http://www.purdue.edu/caps/ during and after hours, on weekends and holidays, or by going to the CAPS office of the second floor of the Purdue University Student Health Center (PUSH) during business hours.

Diversity Welcome
Purdue University is committed to maintaining a community which 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 own potential. In pursuit of its goal of academic excellence, the University seeks to develop and nurture diversity. The University believes that diversity among its many members strengthens the institution, stimulates creativity, promotes the exchange of ideas, and enriches campus life. Purdue’s nondiscrimination policy can be found at: http://www.purdue.edu/purdue/ea_eou_statement.html.

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 at (765) 494-1747. Scores for any missed assignments under a verified GAPS
absence will be pro-rated (based on your average and the class average). See the Lecture or Lab Course Coordinator for more information.

MAPS Absence Policy for Students (MAPS)
A student should contact the Office of the Dean of Students (ODOS) to request that a notice of the leave be sent to instructors as soon as the student is informed of the dates of mandatory military training. Given proper documentation, the instructor will excuse the student from class and provide the opportunity to earn equivalent credit and to demonstrate evidence of meeting the learning outcomes for missed course work.

Absences Due to University Sponsored Activities
A student should bring his or her letter stating the reason for the absence to the instructor as far in advance as possible. The student and instructor will meet to discuss the absence and how, if possible, the learning outcomes associated with any missed class activities may be addressed.

Other Absences
If you experience an absence that is expected to be for an extended period of time (normally a week or more), you should contact the Office of the Dean of Students at (765) 494-1747. As a courtesy to the student, a member of the Dean of Students staff will notify your instructor(s) of the circumstances. This intervention does not change in any way the outcome of the instructor’s decision regarding your academic work and performance in CHM 11200.

This syllabus is subject to change during the semester - an updated version will always be provided on Blackboard.

For details about other Purdue University policies, including academic integrity, class attendance and absence reporting, emergency, nondiscrimination, and disability services, see the course Blackboard site.
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Lecture Topic</th>
<th>Reading (textbook)</th>
<th>Laboratory (T &amp; Th) (Lab Manual Chapter)</th>
<th>NOTES</th>
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<tbody>
<tr>
<td>1</td>
<td>10-Jun</td>
<td>Introduction</td>
<td>Course Packet;</td>
<td></td>
<td><strong>(Safety Certification must be completed before working in lab.)</strong></td>
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<tr>
<td></td>
<td>11-Jun</td>
<td>Intermolecular Forces</td>
<td>11.1-11.2: pp 462-469</td>
<td>Check-in; Safety Certification (Blackboard)</td>
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<td></td>
<td>13-Jun</td>
<td>Phase Changes; Solutions</td>
<td>last page chapter 11, 11.8, 12.3, 12.6, 12.7, 12.8</td>
<td>L1: Intermolecular Forces (Chap. 1) (Lab notebook, splash goggles, and proper clothes for lab work are required.)</td>
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<tr>
<td>2</td>
<td>17-Jun</td>
<td>Acids and Bases</td>
<td>15.1-15.2: pp 661-664</td>
<td>L2: TLC of Plants (Blackboard download)</td>
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<td>18-Jun</td>
<td>Acids and Bases</td>
<td>15.3: pp 664-669</td>
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<td>19-Jun</td>
<td>Acids and Bases</td>
<td>See above</td>
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<td>20-Jun</td>
<td>Equilibria &amp; Weak Acids and Bases</td>
<td>14.1-14.2: pp 617-620</td>
<td>L3: Antacid Analysis (Chap 2)</td>
<td><strong>Personal lab locks needed by this date.</strong></td>
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<td>21-Jun</td>
<td>Equilibria &amp; Weak Acids and Bases</td>
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<td>22-Jun</td>
<td>Acids and Bases</td>
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<td>23-Jun</td>
<td>Acids and Bases</td>
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<td></td>
<td>24-Jun</td>
<td>Weak Acids and Bases</td>
<td>15.4-15.5: pp 670-680; 15.6-15.7: pp 681-684</td>
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<td>25-Jun</td>
<td>Weak Acids and Bases; Polyprotic Acids; Acid Strength</td>
<td>See above; 15.8-15.9: pp 684-691</td>
<td>L4: Synthesis and Chemiluminescence of Luminol (Chap. 3)</td>
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<td>3</td>
<td>26-Jun</td>
<td>Exam I</td>
<td></td>
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<td>Exam I; In Class; GRIS 126, 2:10-3:10pm</td>
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<td>27-Jun</td>
<td>Salt Solutions; Common Ion Effect; Buffers</td>
<td>15.10: pp 692-697; 16.1-16.2: pp 715-719</td>
<td>L5: Describing Acids (Chap. 4)</td>
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<td>01-Jul</td>
<td>Buffers</td>
<td>16.3: pp 719-723</td>
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<td>02-Jul</td>
<td>Buffers</td>
<td>16.3: pp 723-724</td>
<td>L6: Preparation of Buffers and Determination of Buffer Capacity (Chap. 6)</td>
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<tr>
<td>4</td>
<td>03-Jul</td>
<td>No Lecture</td>
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<td>NO LAB</td>
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<td></td>
<td>04-Jul</td>
<td>FOURTH OF JULY</td>
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<tr>
<td>Week</td>
<td>Date</td>
<td>Lecture Topic</td>
<td>Reading (textbook)</td>
<td>Laboratory (T &amp; Th) (Lab Manual Chapter)</td>
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<td>5</td>
<td>08-Jul</td>
<td>Titrations</td>
<td>16.4: 728-733</td>
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<td>09-Jul</td>
<td>Titrations; Lewis Acids/Bases</td>
<td>15.12: pp 699-701; 16.4: 724-728</td>
<td>L7: What are the Molecular Interactions of Washing (Blackboard download)</td>
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<td>10-Jul</td>
<td>Kinetics</td>
<td>13.1: pp 557-564</td>
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<td>11-Jul</td>
<td>Kinetics</td>
<td>13.2: pp 565-568</td>
<td>L8: Acid-Base Titrations (Chap, 5)</td>
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<td>15-Jul</td>
<td>Kinetics</td>
<td>13.3: pp 569-576</td>
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<td>16-Jul</td>
<td>Kinetics</td>
<td>13.3: pp 576-581</td>
<td>L9: Factors Which Influence the Rates of Reactions (Blackboard download)</td>
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<td>17-Jul</td>
<td>Exam II</td>
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<td>18-Jul</td>
<td>Kinetics</td>
<td>13.4: 582-583</td>
<td>L10: How Much Copper is in a Penny (Chap 8)</td>
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<td>13.5: pp 588-599</td>
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<td>22-Jul</td>
<td>Redox</td>
<td>18.1: pp 807-808</td>
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<td>23-Jul</td>
<td>Redox</td>
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<td>L11: Chemical Kinetics (Chap. 7)</td>
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<td>24-Jul</td>
<td>Redox</td>
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<td>25-Jul</td>
<td>Redox</td>
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<td>L12: Redox - Metals and the Activity Series (Blackboard download)</td>
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<td>30-Jul</td>
<td>Organic Chemistry</td>
<td>24.4: 1037-1041</td>
<td>---CHECK OUT---</td>
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<td>8</td>
<td>31-Jul to 02-Aug</td>
<td>FINAL EXAM TBD</td>
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Exam II: In Class; GRIS 126, 2:10-3:10pm

Proper lab dress and goggles required.