Instructor: Dr. Schmidt, gudrun@purdue.edu

Office Hours: Refer to the schedule and announcements on the course Brightspace page.

Lectures: In person (WTHR 200) and recorded via Boilercast. Lecture meets two times per week, according to your class schedule. Lecture/recitations coordinator Saniya Virani, virani0@purdue.edu

Labs: In-person, Chaney-Hale Hall of Science (CHAS) Refer to the schedule on the course Brightspace page. Lab coordinator, Caleb Buchanan, buchan37@purdue.edu

Recitation: In-person Refer to the schedule on the course Brightspace page.

General Chemistry Office, BRWN 1144, genchem@purdue.edu Melissa Roadruck, Administrative Assistant, 765-494-5252 Marlene Miller, Administrative Assistant Leah Everly, Instructional specialist, lmeverly@purdue.edu

The General Chemistry Office handles all the administrative 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. We are able to help you with a variety of requests so you can maximize your success in general chemistry.

The general chemistry office supervises the teaching assistants, manages administrative aspects of the course, and maintains all of the grade records for the course. They can address concerns or questions you may have about course policies and procedures, as well as assist you with course material.

Note: All employees and visitors to the General Chemistry office are required to wear masks and maintain 6-foot social distancing.

Head Teaching Assistants (Lab Supervisors):
Lecture/recitations coordinator Saniya Virani, virani0@purdue.edu Lab coordinator, Caleb Buchanan, buchan37@purdue.edu
They will visit your lab periodically throughout the lab period to answer questions, enforce safety regulations, etc. Your TA can contact them for technical and procedural questions during lab.

Course Description
Chemistry 11100 is a three-credit hour foundational general chemistry course for agriculture, health and human science, and other majors. The stated minimum prerequisite for CHM 11100 is two years of high school algebra. The course is oriented around helping you learn the fundamental chemistry concepts, calculations, and laboratory skills you need in your major. We have a diversity of majors in the course and believe that it is important to relate the chemistry you are learning to the topics you will see in other courses.

The course begins by reviewing measurements, mathematics, and energy changes. We next move to discussing atoms and isotopes then ions and compounds. We will study a bit about periodic properties and how atoms bond to form molecules. Once you know the names of ions
and compounds, we study their shape, since it is the shape of molecules and ions that influences their reactivity. We discuss the chemist’s basic measuring unit, the mole, and use that unit to investigate chemical reactions. Across all topics, there is a simultaneous emphasis on development of problem-solving skills and conceptual understanding. Laboratories and recitations are scheduled weekly and offer an opportunity to reinforce and extend what is discussed in lecture, explore new topics, and to develop your hands-on laboratory skills. We strongly encourage you to attend recitation.

The Chemistry 11100 team—the professor, lecture and laboratory coordinators, course coordinator, teaching assistants, administrative assistants, and general chemistry preparations lab—are committed to, and focused on, helping you learn chemistry. We know that this is a foundational course for your major, and in order to achieve your goals and dreams, you need to do well in the course! Please read on to learn about the required materials, schedules, recommended ways to study, lab policies, grading, and other course policies and procedures.

**Learning Objectives:**
Detailed learning objectives are provided for each module of the course. Broad course learning objectives are

1. Explain the behavior of and interactions between, atoms, molecules, and ions at the molecular and macroscopic levels.
2. Use standardized names and symbols to represent atoms, molecules, ionic compounds, and ions as well as chemical reactions.
3. Predict atomic structure, chemical bonding, and molecular geometry based upon scientific models.
4. Demonstrate competence in quantitative problem solving, conceptual understanding, and the ability to formulate an argument based upon evidence.
5. Demonstrate competence in collecting, analyzing, and interpreting laboratory data.
6. Use computers in data acquisition and processing and use available software as a tool in data analysis.

**Foundational Core:** CHM 11100 meets the science requirement of the university’s foundational core.

**Course Information:**
Brightspace (https://purdue.brightspace.com) is the primary course management site for the course. Assignments, checklists, links to lectures and labs, announcements, learning objectives, grades, and other course information will be posted on Brightspace. We recommend you visit Brightspace often!

**Required Materials:**
**Textbook:** The textbook we have chosen for you this semester is Chang, Chemistry, 13th edition (ISBN: 9781259911156). We 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 Brightspace page will
direct you to the McGraw-Hill site where you can make your purchases.

**Lab Manual:** We have a digital laboratory manual this semester from Bluedoor Labs/Tophat. You will purchase access to the online lab manual directly from a link in Brightspace. This will also give you access to BeyondLabz which is an online lab simulation site that we will be using this year.

**Lab materials:** In addition to the digital materials, you are also required to have approved safety (splash) goggles and an appropriate facemask.

**Office 365:** If in person office hours are not possible because of COVID we will be using MS Teams. You can download and use Teams/OneNote and other programs free. Go to [https://www.itap.purdue.edu/shopping/software/product/office365.html](https://www.itap.purdue.edu/shopping/software/product/office365.html) and log in using your Purdue account.

**Calculator:** A simple battery-operated scientific calculator with exponential, logarithm and square root functions will be needed for exams (a TI-30 works well). Two-line non-programmable calculators are allowed.

**Week #1 Assignments:**
For updates please always refer to the course Brightspace page.

Saniya Virani is the lecture/recitations coordinator, virani0@purdue.edu
Caleb Buchanan is the lab coordinator, buchan37@purdue.edu

- Purchase required materials (see above).
- Register for your Connect account.
- Complete any 11100 Prep assignments (Structure of Matter, Foundational Skills, and Problem Solving) along with the “How to Navigate and Use Connect” assignment when available on Brightspace.
- Check dates for the first Connect weekly homework assignment when available on Brightspace.
- Read all the information in this course packet.
- Read the Reading Assignments and Learning Objectives for Module 1 (when available on Brightspace).
- Read emails from your TAs to find out which recitation group you are in and when you will be meeting for recitation.

**Weekly Assignments:**
(Also refer to the “Some Ways to Study Chemistry” on the course Brightspace page.)

- Attend lecture, recitation, and lab.
- Complete the reading assignment before attending the lecture (see lab/lecture schedule)
- Complete your Connect homework assignment (when available on Brightspace).
- Prepare for lab: read the relevant lab manual chapter and complete the pre-lab exercises.

***For more information on the topics in this course summary, please see course Brightspace page. ***
Overview of CHM 11100 Activities and Policies

***For more detailed information, see the course Brightspace page.***

**Brightspace**
This is the learning management system (LMS) that we use in the course. We will post all the course resources on our Brightspace page and you will need to access this page multiple times each week. The course content is broken up into 3 modules that are explained on the course schedule at the end of this document.

**Reading**
See the lecture schedule in the course syllabus for the reading assignments. These are also posted on our Brightspace webpage. *Reading the assigned material prior to attending lecture and laboratory is recommended.*

**Lectures**
Lecture materials for each module are posted on Brightspace. This includes Powerpoint slides, notes and other materials. Links to the lecture videos recorded via Boilercast are also available on Brightspace.

**Recitation**
Please refer to the recitation schedule on the course Brightspace page. There will be a recitation guide each week that is integrated into the modules.

**Homework (Connect)**
Each week your online homework assignment will consist of required questions and possibly optional assignments. Required assignments will contribute to your homework point total, while optional assignments will not. However, optional assignments and tutorials can be used to help understand how to work problems or to practice and review for exams. A few homework problems will likely appear as questions on quizzes.

Deadlines for completing the on-line assignments will be listed on the online Connect assignment page and in Brightspace. You will have a maximum of three attempts to complete each homework assignment before the listed due date. Homework will be scored and recorded on-line and there is no hand grading or regrading of homework. Your best score is the one that is recorded (not the average).

**Worksheets**
There will be worksheets that will give you a chance to apply the skills you are learning to problem solving. There will be between 6-10 of these assignments during the semester for a maximum of 90 points. If we assign more than 90 points worth of assignments, we will count your best scores and drop the lowest one(s).

**Activities and Explorations**
These are activities where you might explore a simulation and learn more about the behavior of atoms, or engage in writing about your understanding of polar molecules. Or, you might watch a demonstration video and answer questions about the demonstration. We anticipate 15-20 of these activities for a point total of 200 points. If these go over 200 points, then we will count your best scores (by percentage in case the point total on these tasks varies from task to task) and drop the lowest ones.

**Quizzes**
There will be about 12 online quizzes, administered through Brightspace, worth 20 points each.
The content will include problems and concepts from the prior or present week of class. We will announce on Brightspace when quizzes will open and close.

**Laboratory**
Laboratory exercises are an integral part of CHM 11100 and we will complete our labs this year using Top Hat Labs. Please see the Brightspace course webpage to get connected to Top Hat! Below are due dates and guidelines.

- Due dates for Pre-labs and lab manual chapters for the week will be released on Brightspace. Lab data, supporting lab information and lab reports will be released on Top Hat. Please check the announcements on Brightspace frequently for updates.

  Your lab report will be completed online. You should make sure to always:
  - Click SAVE or SUBMIT after you type your responses!
  - 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.

You will be able to review your graded lab reports online within one week after they are submitted. If you have questions about your grade, speak with your lab instructor or the lab coordinator, Caleb Buchanan, buchan37@purdue.edu

**Laboratory Attendance and Participation**
Lab attendance is required since CHM 11100 is a laboratory course. Replacement assignments are possible only for approved GAPS or MAPS absences or verified COVID-19 isolation or quarantine, or COVID testing. The one lowest lab score is dropped at the end of the semester to account for all other absences.

If you miss lab because the Protect Purdue Health Center or the Indiana State Board of Health directs you to quarantine or isolate, then you must contact Leah Everly (leverly@purdue.edu) to request a replacement assignment within one week of the end of your quarantine/isolation period. You must also forward your PPHC documentation to leverly@purdue.edu and genchem@purdue.edu.

If you miss lab because you are ill and/or have COVID symptoms, but you are not quarantined, then get tested for COVID and/or seek medical attention. Please provide hard copy evidence of testing via Filelocker to Leah Everly (leverly@purdue.edu) or upload to the Brightspace portal called “COVID testing documentation” to justify the absence. You will be excused with any documented test and will be given the opportunity to complete a make-up assignment.

**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.

- All students will complete the online safety certification during lab check-in in Week 1. You must score at least 20/25.
• If you miss lab check-in, or score less than 20/25, then you must complete the safety certification on your own *before* you will be allowed to work in lab. You will be sent home and will receive a zero for each lab you miss due to an incomplete safety certification.

• Dress appropriately, including wearing a face mask properly (i.e. covering your mouth and nose) at all times. If your mask is not on properly and is not covering your nose, you will be sent home and will receive a zero for the lab and the lab report (failure to complete). It is your responsibility to have a face mask that properly fits your face and covers your nose and mouth.

• Face shields are optional and are available from the storerooms in CHAS.

• Goggles are required *at all times* in the laboratory, including during clean up, 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). Once you remove your goggles, you must walk out of the lab *immediately*. In other words, you must put everything away, pack-up, and chat with classmates *before* removing your goggles.

• Wear gloves when specified in the lab instructions or by your instructor.

• 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, including water bottles, are not allowed in the labs.

• 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. 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 (see image below). Your TA or lab supervisor might ask you to raise your arms or bend your knees to check if you are violating proper dress.

**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, V-neck or scoop neck (below the collar bone), bare midriff or crop tops, or tank-style
- loose-knit sweaters that expose your skin due to holes or baggy style
- pants that are ripped or have holes in the fabric of any size
- tights or thin (translucent or transparent) leggings or those that have holes or mesh inserts
- Capri or cropped pants
- skinny or ankle pants that reveal skin between the shoe and the bottom of the pant leg (wear boot or long socks if your ankle shows)
- shorts
- short skirts (i.e. shorter than floor length)
- 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 and ankle, with *or* without socks

► If you come to lab wearing anything in the list above, you will be sent home and you will get 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 that cover your ankles.

**Online Final Exam**
There is one online final exam in the course, and that is worth 75 points out of 1,000 points. Information about the online final exam will be posted on Brightspace.

**Determining your Course Grade, Spring 2022**
The points for each of the assigned course activities for CHM 11100 are listed below. Before course grades are finalized at the end of the semester the following scores will be dropped:

- your lowest (1) homework score
- your lowest (1) lab score

The total number of points for CHM 11100 will be distributed as follows:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>130 pts (20 pts of prep assignments + best 13 of 14 at 8.46 pts each)</td>
</tr>
<tr>
<td>Quizzes</td>
<td>240 pts (12)</td>
</tr>
<tr>
<td>Labs</td>
<td>265 pts (Excel lab at 15 pts + best 10 of Labs 2-12 at 25 pts each)</td>
</tr>
<tr>
<td>Activities and Explorations</td>
<td>200 pts</td>
</tr>
<tr>
<td>Worksheets</td>
<td>90 pts</td>
</tr>
<tr>
<td>Final Exam</td>
<td>75 pts (comprehensive)</td>
</tr>
<tr>
<td>Total</td>
<td>1,000 pts</td>
</tr>
</tbody>
</table>

After the Final Exam your course grade will be based on the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>900 pts and above</td>
</tr>
<tr>
<td>B</td>
<td>800 – 899 pts</td>
</tr>
<tr>
<td>C</td>
<td>700 – 799 pts</td>
</tr>
<tr>
<td>D</td>
<td>600 – 699 pts</td>
</tr>
<tr>
<td>F</td>
<td>0 – 599 pts</td>
</tr>
</tbody>
</table>

Save all returned graded assignments until after you have received your course letter grade for CHM 11100. To resolve any discrepancies, your assignments will need to be reviewed. At the discretion of the professor there may be extra credit assignments in the course.

**Course Activities, Policies and Procedures**

**Studying Chemistry**
Expect to spend at least 8-12 hours per week on chemistry. This time includes reading course materials, attending classes, watching demonstrations, completing homework and assignments
and explorations, quizzes, and lab assignments.

**Sources of Help**
There are several free sources of help for CHM 11100 students: (1) professor office hours, (2) TA office hours, and (3) SI sessions. Supplemental Instruction (SI, www.purdue.edu/SI) is offered for CHM 11100. Please visit Brightspace to access information about connecting with SI sessions for your course(s).

**Changing Sections/Dropping**

<table>
<thead>
<tr>
<th>CHEMISTRY DEPARTMENT DEADLINES FOR ADDING OR SWITCHING SECTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fri. Jan. 14:</strong> last day to add CHM 11100 or switch lab sections without instructor approval</td>
</tr>
<tr>
<td><strong>Fri. Jan. 28:</strong> last day to switch lab sections with instructor approval*; last day to add CHM 11100 with instructor approval*</td>
</tr>
<tr>
<td><strong>Fri. Feb. 4:</strong> last day to switch from another CHM course to CHM 11100 with instructor approval*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UNIVERSITY DEADLINES – Spring 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mon. Jan 24:</strong> Last day to cancel (drop) a course without it appearing on your record.</td>
</tr>
<tr>
<td><strong>Mon. Feb 7:</strong> Last day to cancel (drop) a course without a grade.</td>
</tr>
<tr>
<td><strong>Fri. Mar 11:</strong> Last day to cancel (drop) a course (with a passing or failing grade).</td>
</tr>
</tbody>
</table>

**Adding the Course/Late Registration:** Students are usually not permitted to add CHM 11100 after week 3 of the semester. Notify the course coordinator if you register late to see about making up missed assignments.

**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 11100 will be posted on the course Brightspace site or can be obtained by contacting the instructors or TAs via email or the General Chemistry Office via phone at 765-494-5250. You are expected to read your @purdue.edu email on a frequent basis.

*Again: You are expected to read your @purdue.edu email on a frequent basis.*

- **“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.

Accessibility and Accommodations:
Purdue University strives to make learning experiences as accessible as possible. If you anticipate or experience physical or academic barriers based on disability, you are welcome to let me know so that we can discuss options. You are also encouraged to contact the Disability Resource Center at: drc@purdue.edu or by phone: 765-494-1247.

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, 765-494-1247, drc@purdue.edu, 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. Within the first three (3) weeks of the semester or within one week of the date of the letter, you are required to (1) electronically share a copy of your letter to genchem@purdue.edu, or (2) schedule an appointment via email with Melissa Roadruck (melissa@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.

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

In CHM 11100, academic integrity means “doing your own work” at all times. Discussion of chemical concepts and problem-solving methods 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 and is considered academic dishonesty.

Online quizzes and exams in CHM 11100 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, activities and explorations, and exams) is not allowed. Posting any course materials to websites is a violation of copyright laws and is not allowed. Instructor can obtain user information from Chegg and other sites when inappropriate course material is posted and investigate it.

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

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.”
Diversity Welcome
We believe every student in this course has something of value to contribute. Please take care to respect the different experiences, beliefs and values expressed by students and staff involved in this course. We support Purdue’s commitment to diversity, and welcome individuals of all ages, backgrounds, citizenships, disabilities, education, ethnicities, family statuses, genders, geographical locations, languages, military experience, political views, races, religions, sexual orientations, socioeconomic statuses, and work experiences.
See: http://www.purdue.edu/diversity-inclusion/

Nondiscrimination Statement
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 ideas, and enriches campus life. Purdue’s nondiscrimination policy can be found at https://www.purdue.edu/purdue/ea_eou_statement.php

Attendance Policy
“If you feel ill, do not come to class, get tested for COVID and seek medical treatment if needed. Please provide hard copy evidence of testing to justify the absence and to be excused. You will be excused with any documented test and it will not negatively affect your grade. This policy augments the existing Protect Purdue standard process of ODOS issuing notification of any student who is instructed by PPHC to isolate or quarantine. As always, please follow the Protect Purdue guidance found here https://protect.purdue.edu/protect-purdue-health-center/what-to-do-if-you-are-sick/

Students should stay home and contact the Protect Purdue Health Center (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. 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 the instructor as soon as possible by email, through Brightspace, or by phone. 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 or phone at 765-494-1747.

Quarantine or Isolation
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 the instructor via email or Brightspace. 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.

**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. The student will need to complete the Grief Absence Request Form (https://www.purdue.edu/advocacy/students/absences.html). Scores for any missed assignments under a verified GAPS absence will be pro-rated (assigned a score 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 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. The student will need to complete the Military Absence Request Form (https://www.purdue.edu/advocacy/students/absences.html). 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 assignments or assessments.

**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.

**Mental Health and Wellness Statement**
If you find yourself beginning to feel some stress, anxiety and/or feeling slightly overwhelmed, try WellTrack. 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, 8:00 a.m.-5:00 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 with a Purdue Wellness Coach at RecWell (https://www.purdue.edu/recwell/fitness-wellness/wellness/one-on-one-coaching/wellness-coaching.php). 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’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 of the second floor of the Purdue University Student Health Center (PUSH) during business hours.

**Protect Purdue**
The Protect Purdue Plan, which includes the Protect Purdue Pledge, is campus policy and as
such all members of the Purdue community must comply with the required health and safety guidelines. Required behaviors in this class include: staying home and contacting the Protect Purdue Health Center (496-INFO) if you feel ill or know you have been exposed to the virus, wearing a mask in classrooms and campus building, at all times (e.g., no eating/drinking in the classroom), disinfecting desk/workspace prior to and after use, maintaining proper social distancing with peers and instructors (including when entering/exiting classrooms), refraining from moving furniture, avoiding shared use of personal items, maintaining robust hygiene (e.g., handwashing, disposal of tissues) prior to, during and after class, and following all safety directions from the instructor.

Students who are not engaging in these behaviors (e.g., wearing a mask) will be offered the opportunity to comply. If non-compliance continues, possible results include instructors asking the student to leave class and instructors dismissing the whole class. Students who do not comply with the required health behaviors are violating the University Code of Conduct and will be reported to the Office of the Dean of Students with sanctions ranging from educational requirements to dismissal from the University.

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. See also Purdue University Bill of Student Rights.

For details about other Purdue University policies, including academic integrity, class attendance and absence reporting, emergency, nondiscrimination, and disability services, see the course Brightspace site.
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Lecture Topic</th>
<th>Reading (textbook)</th>
<th>Laboratory (Top Hat laboratory manual)</th>
<th>Quizzes</th>
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<tbody>
<tr>
<td>1</td>
<td>Week of Jan 10</td>
<td>Course overview&lt;br&gt;Scientific Notation; Significant Figures; Unit Conversion Practice (You are responsible for sections 1.1-1.7; 2.1-2.2.)</td>
<td>1.8-1.9; pp 18-27 2.1-2.2; pp 42-48</td>
<td>Lab Week 1 Check In / Introduction to Excel</td>
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<td>2</td>
<td>Week of Jan 17</td>
<td>Atomic Number &amp; Mass; The Periodic Table&lt;br&gt;EM Radiation; Orbitals; Electron Configuration; Valence &amp; Core Electrons</td>
<td>2.3-2.4; pp 48-52 7.1; pp 275-278 7.8-7.9; pp 301-309</td>
<td>Lab Week 2 Intro to Lab Techniques, Part I</td>
<td>Quiz 1a TBD</td>
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<td>3</td>
<td>Week of Jan 24</td>
<td>Periodicity of Electron Configurations; Electron Configuration of Ions&lt;br&gt;Atomic &amp; Ionic Size; Ionic &amp; Covalent Bonding</td>
<td>8.2; pp 329-333 8.3; pp 333-337</td>
<td>Lab Week 3 Intro to Lab Techniques, Part II</td>
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<td>4</td>
<td>Week of Jan 31</td>
<td><em>Naming Molecular/Ionic Compounds, Acids Practice</em>&lt;br&gt; Ionic &amp; Covalent Bonding; Electronegativity</td>
<td>2.5-2.7; pp 52-66 9.1-9.2; pp 367-370 9.4-9.5; pp 375-380</td>
<td>Lab Week 4 Measuring Density</td>
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<td>5</td>
<td>Week of Feb 7</td>
<td>Lewis Structures&lt;br&gt;Resonance; <em>Lewis Structure Practice</em></td>
<td>9.6; pp 381-384 9.8; pp 387-389</td>
<td>Lab Week 5 Isolation of Fat from Cookies and Potato Chips</td>
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<td>6</td>
<td>Week of Feb 14</td>
<td>Polarity; Shapes of Molecules Practice</td>
<td>10.1; pp 411-420 10.2; pp 421-426 3.1-3.3; pp 79-86</td>
<td>Lab Week 6 Molecular Geometry</td>
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<td>7</td>
<td>Week of Feb 21</td>
<td>Using Moles; Percent Composition</td>
<td>3.5; pp 88-91</td>
<td>Lab Week 7 Molecular Polarity</td>
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<td>8</td>
<td>Week of Feb 28</td>
<td>October Break</td>
<td>4.1; pp 122-124 4.5; pp 147-151 12.3; pp 517-518</td>
<td>Lab Week 8 Electrolytes and Non-electrolytes</td>
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<td>9</td>
<td>Week of Mar 7</td>
<td>How Light Interacts w/Matter; Spectroscopy</td>
<td>PDF on Brightspace</td>
<td>No Labs</td>
<td>Quiz 2e TBD</td>
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<td>10</td>
<td>Week of Mar 14</td>
<td>Chemical Reactions and Equations</td>
<td>3.7; pp 93-98 4.2; pp 125-129</td>
<td>No Labs Spring Break</td>
<td>No quiz</td>
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<td>11</td>
<td>Week of Mar 21</td>
<td>Acid-Base Reactions; Redox Reactions</td>
<td>4.3-4.4; pp 130-146</td>
<td>Lab 9 Chemical Interactions</td>
<td>Quiz 3a TBD</td>
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<td>Week of Mar 21</td>
<td>Quantities in Chemical Reactions</td>
<td>3.8; pp 98-102</td>
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<th>Solution Stoichiometry</th>
<th>4.7; pp 153-156</th>
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<td>Energy Changes in Reactions</td>
<td>6.1; pp 231-234</td>
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<td>Techniques to Determine Concentration - Spectroscopy</td>
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<td>Stoichiometry and Energy Problem Solving</td>
<td>6.4; pp 242-244</td>
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<td>6.5; pp 246-247 pp 249-252</td>
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<td>Thanksgiving Break</td>
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<td>Week of Apr 18</td>
<td>Stoichiometry Practice</td>
<td>3.9; pp. 102-1-6</td>
<td>Lab 13</td>
<td>Chemical Reactions and Heat Changes</td>
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<td>16</td>
<td>Week of Apr 25</td>
<td>Limiting Reactants; Percent Yield</td>
<td>3.10; pp. 106-109</td>
<td>Check-out</td>
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<td>Limiting Reactant/Percent Yield Practice</td>
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