Chemistry 11500 is the foundational general chemistry course for engineering, science, and some agricultural majors. The stated minimum prerequisite for CHM 11500 is one year of algebra and one year of chemistry. CHM 11500 meets the science requirement of the university’s foundational core.

The course begins with a brief review of core concepts from high school chemistry and then moves into nuclear chemistry. The focus remains on materials at the atomic level while studying atomic spectroscopy and periodic trends. Models of bonding atoms move the course to a focus on ionic, covalent, and metallic compounds. At the molecular level, the shape and structure of compounds is studied next, followed by an examination of solutions, UV/Vis spectroscopy and calibration. A study of organic materials, such as hydrocarbons, biological molecules and polymers, comprises the middle section of the course. Solids, semiconductors, and nanoparticles are covered in the final section of the course, which focuses on inorganic materials.

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. Laboratories 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.

There are 2 lecture sections of CHM 11500 taught by professors Claridge and Ramachandran. There are about 15 graduate teaching assistants who teach laboratory and recitation sections.

The Chemistry 11500 team—the professors, course coordinator, teaching assistants, administrative assistants, and general chemistry preparations lab—are committed 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, lecture and lab schedule, recommended ways to study, lab policies, grading, and other course policies and procedures.

BRWN 1144, The General Chemistry Office, 765-494-5250 The General Chemistry office handles all the administrative details associated with the course. All non-chemistry questions about the course should 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 (weeks 2 and 3), and to get signatures on university forms such as add/drop forms. Marybeth Miller and assistants Susan Linn and Connie Reynolds are able to help you with a variety of requests so you can maximize your success in general chemistry.

Lecture and Lab Coordinators: Michael Drolet is the lecture coordinator, BRWN 1144, phone: 49-45250; mdrolet@purdue.edu. Rashmi Shrestha is the lab coordinator, BRWN 1144, phone: 49-45250; rshrest@purdue.edu. The General Chemistry Office is in Brown 1144 and the staff in that office can also answer questions for you or direct them to Drs. Claridge or Ramachandran. They can address concerns or questions you may have about course policies and procedures or issues you might have with your TA.

Course Information Blackboard
http://www.itap.purdue.edu/learning/tools/blackboard/
Lecture outlines, reading assignments, announcements, and other course information are available on the course Blackboard page. It is recommended you visit it often.
Required Materials


**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. Solar calculators do not function well in some areas of the Hall of Music. Calculators are available for purchase outside WTHR 200 during the first two weeks of class.

**Lab materials:** In addition to a lab manual, a padlock for your assigned lab drawer (by week 4), a sharpie (black, permanent ink) for marking lab glassware, and approved safety goggles, available at the bookstores, outside WTHR 200 during the first two weeks of classes, or from the storeroom on the 1st or 2nd floor in BRWN, are required for lab.

**Week #1 Assignments:**

- Purchase required materials (see above).
- Register for your CONNECT account.
- Begin/complete the first CONNECT homework assignment.
- Read all the information in this course packet.
- Read the relevant 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 by **11:59 PM on Sun. Jan. 25. You must complete your safety certification before you can work in lab and receive credit for the lab.**
- Attend recitation and lecture.

**Weekly Assignments:**

(Also refer to the “Some Ways to Study Chemistry” section found in your custom textbook or on the course Blackboard page.)

- Attend lecture, recitation, and lab.
- Do the reading assignment for lecture (see your lecture notes or Blackboard).
- Complete your Connect homework assignment (usually due each Tuesday at 11:59 pm).
- Prepare for lab: read the relevant lab manual chapter, do the textbook reading assignment for lab (see lab/lecture schedule, pp. 12-13), and complete the pre-lab exercises including the lab procedure outline.
Overview of CHM 11500 Activities and Policies

***For more detailed information, see the course Blackboard page or the insert in the Purdue custom edition textbook.***

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. You are expected to read your purdue.edu email and/or check the course Blackboard page for more information.

Reading
Reading assignments will be provided in lecture. Reading the assigned material prior to lecture and laboratory is recommended. 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. Lecture notes taken by TAs are available for check-out in the Chemistry Resource Room the day after lecture.

- Audio recordings and video capture of lecture slides can be downloaded from the Boilercast website (http://www.itap.purdue.edu/tlt/BoilerCast/) or from the link in Blackboard.

- i>clickers or cell phone or tablet class participation apps may be used in lecture to gauge student comprehension of the presented material.

- Cell phones, computers, iPods or other electronic devices not being used for instruction purposes are distracting for everyone in a learning situation. Computers can be used to take notes and follow lecture, but please respect your classmates by not using Facebook, texting, surfing the internet, 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.

Recitation
Weekly recitation provides the opportunity for you to ask questions, work problems in groups, and prepare for the upcoming laboratory experiment. Bring your textbook, lab manual and homework and/or lecture questions with you to recitation.

You must attend recitation to receive credit for your pre-lab assignment for that week. (If you are absent from recitation, the prelab portion of your lab score for that week will be a zero.) Email your TA in advance if you must miss recitation.
Homework (CONNECT)

- Each week you will have a homework assignment on the online Connect system (see Blackboard for the link). Homework will usually be due on Tuesdays at 11:59 pm. Due dates will be listed on Blackboard and on the CONNECT assignment page.

- You will have 2 assignment submission attempts for each Connect homework assignment. Each assignment attempt will contain 3 question attempts. Your score will be the best score of the 2 assignment submissions.

- For help with technical issues, contact Connect customer service at 1-800-331-5094 or use the online form at http://mpss.mhhe.com/. Firefox is the recommended browser for Connect.

- Each homework assignment is worth 10 points. The lowest homework score will be dropped at the end of the semester.

- No time extensions are possible for 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.

- Certain LearnSmart modules within Connect will be available for extra credit points, which will be added to your total points at the end of the semester.

Laboratory

Laboratory exercises are an integral part of CHM 11500 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 11500 is a laboratory course. There are no make-up labs or excused absences, except those covered by the GAPS and MAPS policies (see p. 10).

- You are required to complete 9 of the 11 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.

  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 safety violations, including improper dress and google infractions
  - arriving more than 10 minutes late
  - inadequate preparation that hinders lab participation
  - not contributing constructively to the group’s work in lab
  - failure to submit a lab report
  - not participating in preparation of the 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 Sun. Jan. 25. You must confirm your score in the Blackboard grade center. You will receive a zero for each lab you miss due to an incomplete safety certification.

- Before lab, read the experiment and attend recitation to help you prepare.
• Complete the pre-lab exercises found on Blackboard 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. If you arrive at lab more than 10 minutes late or improperly dressed, you will be asked to leave the lab and will receive a score of zero.

• Follow all lab safety regulations (see below).

• Endeavor to work as an effective member of team.

• Complete the lab report appropriately:
  o Use ink and write neatly.
  o Label graphs and tables.
  o Use the data your group collected for the calculations and analysis.
  o Use correct units of measurement and significant figures.
  o Use chemical terms and concepts correctly.
  o 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 10:20 AM, 2:20 PM or 5:40 PM. Lab reports submitted up to 24 hours late are worth 50%.

• Lab reports will be returned to you one week after they are submitted. If you have questions about your grade, speak with your lab instructor or the lab coordinator (Rashmi Shrestha) within one week of the report being returned to you.

• If you do not attend lab check-out at the end of the semester, you will be charged $45 plus the cost of any replacement equipment.

Safety
Students’ safety in the laboratory is a priority and everyone is required to follow the following lab safety regulations. Failure to comply with any of the safety regulations will result in being sent home from lab with a score of zero.

• Food and beverages (including water bottles) are never allowed in the labs.
• All backpacks, coats and other personal belongings must be placed on the coat rack.
• 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.
• 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.
• Wear gloves when specified.
- 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. Your best option for chemistry lab attire is a t-shirt, jeans without holes, and sneakers with socks. **If you attend lab in unacceptable attire, you will be sent home and will receive a zero for the lab.**
  
  *Unacceptable* clothing includes, but is not limited to: sleeveless or low-cut (i.e. below the collar bone) tops, pants that have holes or rips of any size, cropped pants, shorts, short skirts, open-toed and/or open-heeled shoes, sandals (with or without socks), ballet flats, or slippers.
  
  *In short, your skin must be covered from your collarbone down to your feet.*

- 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 prelab. This includes the period of time during which you are writing the lab report.
Exams
Exams are a chance for you to demonstrate your comprehension of the course material and are worth approximately 60% of your final grade. Your lowest exam score or ½ your final exam score will be dropped at the end of the semester.

Spring 2015 hour exam schedule:

| Exam I:    | Thu., Feb. 12 | 6:30 pm – 7:30 pm | Elliott Hall of Music |
| Exam II:   | Mon., Mar. 09 | 8:00 pm – 9:00 pm | Elliott Hall of Music |
| Exam III:  | Mon., Apr. 13 | 8:00 pm – 9:00 pm | Elliott Hall of Music |

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 or MAPS policy (see p. 10). If you are absent for one exam, your score will appear as a zero until the end of the semester, at which time one zero score can be dropped. You will receive no score (zero points) for additional missed exams.

- 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. If an emergency occurs, contact the General Chemistry office (BRWN 1144) as soon as possible.

- Exams I, II and III are each one hour in length. You should arrive at least 15 minutes before the exam start time. If you are more than 15 minutes late for an exam, you will not be allowed to take the exam.

- Exams are given in the Elliott Hall of Music. Before Exam I, you will receive an exam seat assignment (level, aisle, row, and seat) for the entire semester. Take your PU ID, your seat assignment, an appropriate calculator (see p. 2), and #2 lead pencils with you to the exam. You may not share a calculator with another student.

Final Exam

- The final exam is a 2-hour comprehensive exam. The time and place will be announced mid-semester.

- Wait until you know the date of the final exam before you make travel plans that might conflict with the exam. Final exams will NOT be rescheduled to accommodate your travel plans.

- University policy on Final Exams states: “*Students scheduled for more than two (final) examinations in one calendar day are entitled to reschedule any 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, SPRING 2015

Each of the assigned course activities for CHM 11500 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 (not including the 10 pt Course Policy Review and Excel exercises; see p. 9 for instructions to make up these two assignments), provided you have completed at least 9 of the 11 labs
- your lowest exam score or ½ your final exam score, whichever is lower (see below)

The total number of points for CHM 11500 will be distributed as follows:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>130 pts (best 13 of 14 assignments at 10 pts. each)</td>
</tr>
<tr>
<td>Labs</td>
<td>270 pts (best 10 of 11 at 25 pts each plus 2-10 pt. exercises)</td>
</tr>
<tr>
<td>Exams</td>
<td>450 pts (3 at 150 pts each)</td>
</tr>
<tr>
<td>Final Exam</td>
<td>300 pts (comprehensive)</td>
</tr>
<tr>
<td>Sub-total</td>
<td>1150 pts</td>
</tr>
<tr>
<td>Drop</td>
<td>150 pts (drop lowest exam score or ½ final exam score, whichever is less)</td>
</tr>
<tr>
<td>Total</td>
<td>1000 pts</td>
</tr>
</tbody>
</table>

Extra credit points (number to be determined) will be available for completing certain LearnSmart modules assigned in Connect.

If you miss more than 2 labs, your course grade will automatically be an F. Except for approved GAPS or MAPS leaves, there are no excused absences in CHM 11500.

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Extra credit points (number to be determined) will be available for completing certain LearnSmart modules assigned in Connect.

If you miss more than 2 labs, your course grade will automatically be an F. Except for approved GAPS or MAPS leaves, there are no excused absences in CHM 11500.

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- Check all your grades on Blackboard after each exam. If there are any errors or discrepancies, notify the Lecture Coordinator, Michael Drolet, within 2 weeks of the exam.
- Save all returned graded papers and your exams until after you have received your course letter grade for CHM 11500. To resolve any discrepancies, your paper(s) will need to be reviewed.
- The point total available for exams is 600 (4 x 150). Your dropped exam score will be determined as follows: Your points earned on the Final Exam will be divided in half and considered as separate scores, T4 and T5. These scores will be compared with your scores on Exams 1-3 (T1, T2, and T3) and the lowest of these 5 scores will be dropped (i.e. not counted into your total points).
COURSE ACTIVITIES, POLICIES AND PROCEDURES

Studying Chemistry
Expect to spend 8-12 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. For more advice, see the “Resources” folder on the course Blackboard page.

Sources of Help
There are several free sources of help for CHM 11500 students, including professor office hours, TA office hours, Supplemental Instruction, private tutors, and the Chemistry Resource Room. Find more information in the “Resources” folder on Blackboard.

Changing Sections/Dropping

<table>
<thead>
<tr>
<th>UNIVERSITY DEADLINES - Spring 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon. Jan 26: Last day to cancel (drop) a course without it appearing on your record.</td>
</tr>
<tr>
<td>Mon. Feb 09: Last day to cancel (drop) a course with a grade of “W.”</td>
</tr>
<tr>
<td>Wed. Mar 23: Last day to cancel (drop) a course (with a passing or failing grade).</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>CHEMISTRY DEPARTMENT DEADLINES – SPRING 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tues. Jan. 20: last day to add chemistry or switch lab sections without instructor approval</td>
</tr>
<tr>
<td>Fri., Jan. 30: last day to switch lab sections;</td>
</tr>
<tr>
<td>Fri., Feb. 6: Last day to add CHM 11500 if not enrolled in another CHM course with instructor approval, last day to switch from another CHM course to CHM 11500</td>
</tr>
</tbody>
</table>

Late Registration If you register late, notify the lab coordinator Rashmi Shrestha no later than Fri. Jan. 23 to see about the possibility of making up missed assignments.

Lab Drawer Check-Out If you drop CHM 11500 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.
Absences
- Verified grief and military absences are the only excused absences in CHM 11500. Students who experience the death of a family member or close friend and students who are called into military service should contact the Office of the Dean of Students at 765-494-1747.

- The lowest score in each category (lab, HW, exam) is dropped at the end of the semester to account for other types of absence. If you have concerns about absences affecting your course grade, contact your instructor at the time of the absence.

- 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. A member of the Dean of Students staff will notify the student’s instructor(s) of the circumstances. The student should be aware that this intervention does not change in any way the outcome of the instructor’s decision regarding the students’ academic work and performance in any given course.

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 (assigned a score based on your average and the class average).

Military Absence Policy for Students (MAPS)
If you are required to complete mandatory military training, notify the Office of the Dean of Students (ODOS) at 765-494-1747 to request that a notice of the leave be sent to instructors.

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. 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. Timely notification of the General Chemistry office is critical for timely implementation.

Academic Dishonesty
All students are expected to be familiar with Purdue’s policies on academic integrity (https://www.purdue.edu/odos/osrr/academic-integrity-brochure/). Consequences of academic dishonesty include receiving a lower or failing grade for an assignment, being required to repeat the assignment, and/or receiving a lower or failing grade for the course.

For details about other Purdue University policies, including academic integrity, class attendance and absence reporting, emergency, nondiscrimination, and disability services, see the Purdue custom edition of your textbook or the course Blackboard site.
In the event of a major campus emergency, campus requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances beyond the instructor’s control. Relevant changes to this course will be posted on the course Blackboard 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.

- **“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.
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Lecture Topics for Spring 2015</th>
<th>Chapter or Section(s)</th>
<th>Lab Assignment</th>
<th>Lab Reading Assignment</th>
<th>Exams</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/13</td>
<td>Introduction to course and policies</td>
<td></td>
<td>Course Packet</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1/15</td>
<td>Review</td>
<td>3.1, 1.5, 2.6-2.8, 2.2, 4.4, 3.5</td>
<td>Check in, Safety Procedures, Course Policy Review (during recitation), Basics of Excel exercise (Appendix A), Safety Certification</td>
<td>Course Packet</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1/20</td>
<td>Review</td>
<td>2.5, 2.8, 3.3, 3.4</td>
<td>no lab (MLK day)</td>
<td>(recitation and lecture meet this week)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1/22</td>
<td>Review</td>
<td>1.5, 1.4, 1.6, 1.1, 5.3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1/27</td>
<td>Nuclear Chemistry</td>
<td>CH 24</td>
<td>Lab 1: Introduction to Measurement Techniques in the Laboratory (posted on Blackboard)</td>
<td>textbook 1.6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1/29</td>
<td>Nuclear Chemistry</td>
<td>CH 24</td>
<td><strong>Safety Certification (due Jan. 25 at 11:59 PM) must be completed (min. 20/25) before working in lab</strong></td>
<td></td>
<td></td>
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<tr>
<td>4</td>
<td>2/3</td>
<td>Nuclear Chemistry</td>
<td>CH 24</td>
<td>Lab 2: Chemical Synthesis (Alum) (Ch 3)</td>
<td>textbook p. 112, pp. 71-2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2/5</td>
<td>The Atom</td>
<td>7.1, 7.2, 7.4 (part, pp. 279-280, 282-287)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>5</td>
<td>2/10</td>
<td>The Atom</td>
<td>8.2</td>
<td>Lab 3: Titrations and Accuracy of Glassware (Ch 4)</td>
<td>textbook 1.6, 3.5, 4.4</td>
<td>Exam I Thurs. Feb. 12 6:30 PM</td>
</tr>
<tr>
<td></td>
<td>2/12</td>
<td>Trends in Chemical Reactivity</td>
<td>8.3, 8.4, 2.7, 2.8</td>
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<tr>
<td>6</td>
<td>2/17</td>
<td>Trends in Chemical Reactivity</td>
<td>9.1-9.3, 9.6, 6.5</td>
<td>Lab 4: Preparing and Standardizing a Solution (Ch 5)</td>
<td>textbook 1.6, 3.5, p. 152</td>
<td></td>
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<tr>
<td></td>
<td>2/19</td>
<td>Trends in Chemical Reactivity</td>
<td>6.2, 6.4, 9.4</td>
<td></td>
<td></td>
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<tr>
<td>7</td>
<td>2/24</td>
<td>Trends in Chemical Reactivity</td>
<td></td>
<td>Lab 5: Preparation of Luminol (Ch 10)</td>
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<tr>
<td></td>
<td>2/26</td>
<td>Spectroscopy</td>
<td>13.1, 13.4, 13.5 and pp. 273-4</td>
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<tr>
<td>8</td>
<td>3/3</td>
<td>Molecular Structure</td>
<td>10.1, 9.5</td>
<td>Lab 6: Spectrophotometric Analysis (Ch 8)</td>
<td>textbook 3.5 and pp. 273-274 (Spectrometry)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3/5</td>
<td>Molecular Structure</td>
<td>10.1</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>9</td>
<td>3/10</td>
<td>Molecular Structure</td>
<td>10.2, 10.3</td>
<td>No Lab (compensation for evening exams)</td>
<td></td>
<td>Exam II Mon. Mar. 9 8:00 PM</td>
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<tr>
<td></td>
<td>3/12</td>
<td>Molecular Structure</td>
<td>12.3, 13.1</td>
<td></td>
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<td>Week</td>
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<td>12.3, 13.1</td>
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<td>10</td>
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<td>Spring Break -- 03/16 - 03/21</td>
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<td>15.1, 15.2, 15.4</td>
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<td>12</td>
<td>3/31</td>
<td>Organic Chemistry</td>
<td>15.5, pp. 461-466</td>
<td>Lab 8: Molecular Geometry and Polarity (posted on Blackboard) textbook 10.1-10.3</td>
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<td>4/2</td>
<td>Organic Chemistry</td>
<td>Infrared spectroscopy, pp. 343-344</td>
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<td>4/7</td>
<td>Biochemistry</td>
<td>13.2, 15.6, and pp. 386-7</td>
<td>Lab 9: Investigation of Polymers (Ch 11) textbook 15.5, pp. 461-6 (polymeric materials)</td>
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<td>Solution Properties</td>
<td>12.2, 13.3</td>
<td>Lab 10: Paper Chromatography (posted on Blackboard)</td>
<td>Exam III Mon. Apr. 13 8:00 PM</td>
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<td>Lab 11: Colligative Properties (Ch 13) textbook 13.6</td>
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<td>16</td>
<td>4/28</td>
<td>Inorganic Chemistry</td>
<td>12.7 and The Future of Energy Use, pp.249-252</td>
<td>Check-out (You must attend or be charged a $45 failure-to-check-out fee.)</td>
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<td>Final Exam Week (5/4 through 5/9)</td>
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DO NOT make travel plans that conflict with the final exam.