

Chapter 1 : Schedule for Chem

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Chemistry is the first in a two-course sequence in General Chemistry. Chemistry impacts every area in our lives: Our goals for this course are for you to recognize that what happens at the molecular level profoundly affects our macroscopic world, and how fun chemistry is. By the end of Chem , you will understand conceptually 1 how atoms combine to form molecules; 2 how molecules interact and react with each; and 3 how the molecular-level structure affects the macroscopic properties. Throughout the semester, you will learn problem-solving skills by applying simple mathematical equations and through interpretation of graphs to these physical phenomena. This website also contains important information about Chem policies and procedures. Our goal in Chem is to conceptually understand how the structure and energy of atoms and molecules at the nanoscale affect the properties we can observe in the macroscopic world. We will progress from an understanding of atoms to how atoms combine to form compounds. We will then discuss how molecules interact with each other, which ultimately leads us to reactions between molecules. Throughout the semester, we will emphasize the relationship between energy and atomic and molecular structure. MWF, there are three lectures each week. You are expected to be at every lecture even if you think you already know the material. You are responsible for all course material and administrative announcements, including problem assignments, syllabus changes and exam locations. Copies of the lecture notes are available prior to class at <http://> Please print and bring them with you to class. Held every Thursday at various times, depending on your section; see the course website for time and location for your specific section. These are small classes led by a teaching assistant. The purpose of recitation is to give you an opportunity to participate actively in class work and to ask questions about the current material. You should bring your textbook, the Chem Student Packet, and a calculator to each recitation class. Previous chemistry and algebra experience, with knowledge of logarithms. During the first week you will have the opportunity to take a pre-quiz in line to help you enroll in the appropriate chemistry course. This pre-quiz will NOT count toward your Chem grade; it is only to ensure that you are placed in the appropriate chemistry course. We want all students to succeed in chemistry, and this starts with proper placement in courses. Please see your instructor as soon as possible if you have any questions or concerns about your preparation for Chem See the Expected Background link on the course Web page for details concerning the assumed background including sections in the textbook you can use to review and sample problems corresponding to our expectations of your prior chemistry knowledge. Please refer to <http://> A new soft-cover version of the Chem half-textbook entitled "Volume 1 for Chem " is available this spring. Students that will go on to Chem should purchase the full text and do NOT need to purchase "Volume 1". This text is a partial text, and contains ONLY the material from the full text that is covered in Chem , including Chapters ,13,15,18 and 25, while using the same page numbers as the original text. No Content is left out. An appendix is included which has practice exams from last year, and a Student Solutions manual with the same chapters to match Volume 1 will be free in the package. This is the option we recommend for students who ONLY have to take Chem and will not need the full text in the future. It is only available at bookstores on or near the Penn State campus. Chemistry Required Packet of Materials. This packet has the complete syllabus, course policies, supplemental homework problems and practice exams from previous semesters. Calculators with text-storage or graphing capabilities such as the TI used in Math are NOT permitted for use on exams and quizzes. Resources for Chem help: The Chemistry Resource Room Whitmore is a free source of Chem help, which is open throughout the week hours posted on the course website. Supplemental Instruction SI , a free service offered by the University, provides several help sessions during the week run by trained student peers. SI hours will be posted on the Chem website once it begins for the semester. The Chem website also has online resources, including tutorials , for your use. You are encouraged to take advantage of these resources to answer questions throughout the semester. There will be three evening examinations during the semester and a comprehensive final examination during the final exam period. The dates and times for the mid-semester exams are given below. These dates and times are fixed; you must work

out any conflicts that arise. Locations for all exams will be announced in class and posted on the course website. We will make provisions for conflicts between these evening exams and other scheduled University activities; however, you must register for such conflicts in class during the sign-up period prior to each exam. The final exam will be given at the time and place set by the University in its final exam schedule. A student having a legitimate excuse for missing any of the three scheduled tests will be provided with a single make-up opportunity near the end of the semester. This cumulative make-up test will cover the material from all three exams. It is your responsibility to obtain permission from your lecturer to take this exam and to respond to the in-class request to sign up for this exam; this request will be made shortly after the third exam. Make-up exams will be provided only to students with valid excuses family emergency, illness, etc. Your course grade will be completely determined by your three mid-semester exam grades, your final exam grade, your quiz and homework grades, and online skill check tests. These will be weighted as follows:

Chapter 2 : Chem , am lecture (Section 2)

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This is NOT case sensitive. Records of your progress are kept in the OWL database. Your score is recorded whenever you click on the "Save Grade" button. If you have trouble logging in to the system, click on the "Login Trouble" button and fill out the form. If you add the course after the first week of classes, go to the OWL login page and fill out the information requested under "Login Trouble" in order to be rostered. This can make the difference between a "B" or a "C" in the course, so treat them seriously. You may do each OWL assignment as often as you would like. Only your best score, completed within the deadline period, counts toward your grade. Each time you try a particular assignment, you should see a different, but similar set of questions. Feedback is given after you answer each question. This makes OWL an ideal tool to use to study for exams remember, after you have passed an assignment, you have passed, there is no penalty for retaking OWL units. When you do an OWL assignment, you will work without supervision and are encouraged to work together to study the material. Please remember that the academic honesty policy applies to online assignments in the same way it applies to other forms of course work, what you ultimately submit is your own work. Many students who have used OWL in the past have stated that working through the OWL assignments is the best and easiest way to learn chemistry and obtain high grades in the course. OWL can be accessed from any computer connected to the internet, on-campus or off via PPP , for example , at the web site <http://> If you do not have a personal computer, any of the public computer labs on campus can be used to access OWL, as can the Chemistry Resource Center. You must pass each module to get credit towards your final grade. You may take each module as many times as you like. OWL serves as a valuable practice tool to get ready for exams. Once you have passed a module, it is passed permanently. There is no penalty for taking modules after you have passed them Chemland and the Saunders Interactive CD Chemland is a wonderful piece of software currently under development at UMass in the laboratory of Professor Bill Vining. This software is available in the CRC to help with understanding the concepts in chemistry. A web-based version is currently in testing and is available here - try it! Similarly, the Saunders Interactive CD is an accompaniment to the text and comes bundled with the text you purchased. Note however, that the final pressing of the CD was not ready in time for the shipment of the revised text. You should receive a coupon in your text which will allow you to pick up a CD at no extra cost when it is ready. These tools are great at helping you to understand concepts. Chemistry is not a spectator sport! In order to pass the course you must obtain a passing grade in the laboratory. In order to obtain this grade you must: Complete ALL the laboratories. The deadlines for completion of the OWL-Lab Exams are detailed on the Lab Schedule which may be picked up during the first week of lecture outside Gsmn The deadlines are rigorous and depend on your lab section. Do not leave it until the last minute to do these on-line exams. The lab "Data sheets" can be downloaded directly from the Chem lab web site.

Chapter 3 : Dr. Keeney-Kennicutt's Notes

Lecture notes (with blanks) are provided for each lecture. Students are expected to follow along during the lecture in order to fill in the blanks in the notes. Readings are from the required textbook: Atkins, Peter, and Loretta Jones. Chemical Principles: The Quest for Insight. 4th ed. New York, NY.

Chapter 4 : Readings and Lecture Notes | Principles of Chemical Science | Chemistry | MIT OpenCourseWare

GY Lab Notes D. Haywick () 3 The protons and neutrons are held within the nucleus of the atom/ion.

Chapter 5 : Principles of Chemical Science | Chemistry | MIT OpenCourseWare

Chem lecture notes page22 by Alan Zombeck. This is the end of the preview. Sign up to access the rest of the

document.

Chapter 6 : Chem General Information page

A newsgroup for all sections of Chem A newsgroup specific to our lecture section If you're having trouble with a particular problem or concept, post your question and then watch for helpful comments from your colleagues.

Chapter 7 : CHEMISTRY / racedaydvl.com: Reger Goode: racedaydvl.com: Books

CHEM General Chemistry I. Fall Semester. primary out-of-course work for the lecture should be reading the OWLBook, doing the this is to make notes.

Chapter 8 : Lecture Notes: CHEM Colorado State (CSU): Koofers

GENERAL CHEMISTRY I Dr. Michael Blaber. Lecture Notes Menu. Basic Concepts Hypotheses, Theories and Facts Dimensional Analysis Introduction to Matter Elements and.

Chapter 9 : General Chemistry CHEM CHEM

General Chemistry Chem and Chem Lecture Notes & Practice Exams. For syllabus with current course information and homework problems find your course in UTC Learn (Blackboard).