

Syllabus for CHEM 1331, Fall Semester 2017

Read carefully; retain throughout the semester. It all applies to you! More information on the back. 8/11/2017

Catalog Description	Prerequisite: MATH 1330 or equivalent and successful completion of the chemistry placement test*. For science and engineering majors. May not be applied toward a degree until CHEM 1111 is successfully completed. Credit may not be applied to a degree for both CHEM 1331 and CHEM 1301 . General principles, fundamental laws, atomic & molecular structure, states of matter, & elementary inorganic, nuclear, & organic chemistry. ALL CHEM 1331 students must take the PA placement test this semester at CASA (Aug. 14 - Aug. 29.) Get your Blackboard & CASA accounts ASAP.
Required Text	Zumdahl and Zumdahl "Chemistry, An Atoms First Approach" 2 nd Ed., UH Custom 2 nd Edition, Cengage Learning, 2016
Required Calculator	Nonprogrammable, non-graphing scientific calculator such as a TI-30Xa or equivalent. (No Alpha, eqn. solve. functions, or cell phone calculator use)
Web Support	Weekly homework assignments, PA test and exams in CASA testing center are given on Blackboard (Bb). www.uh.edu/blackboard
Help	(1) CHEMISTRY Help Desk, 220F, weekdays (2) LAUNCH, Cougar Village (bldg. 563), room N109 713-743-5411 (www.las.uh.edu/LSS) (3) Office hours

Course Schedule

Week	Chapter	Sections	Topic	Blackboard Assignment
Aug. 21	Review, 1	R.1 - R.10, 1.1-1.3	Review Chap't., selected topics (<i>remainder self study</i>); Chemical Foundations (in part)	Preparation Assessment (PA)
Aug. 28	1, 2	1.4-1.7, 2.1-2.5	Chemical Foundations cont'd.; Atomic Structure and Periodicity (in part)	C1HW1
Sept. 4	2	2.6-2.13	Atomic Structure and Periodicity (cont'd.)	C2HW1
Sept. 11	3	3.1-3.12	Bonding: General Concepts (in part) Move C3.4 (lattice energy) to Chapter 7	C2HW2
Sept. 18	3, 4	4.1-4.3	Finish Bonding: General Concepts if needed; Molecular Structure and Orbitals (in part)	C3HW1
Sept. 25-27	Exam over Chapters 1, 2, 3		Exam I at CASA (reserve time at casa.uh.edu , dates may change)	
Sept. 25	4, 5	4.4-4.7, 5.1-5.2	Molecular Structure and Orbitals (cont'd.); Stoichiometry (in part)	C4HW1
Oct. 2	5	5.3-5.9	Stoichiometry (cont'd.)	C5HW1
Oct. 9	5, 6	5.8-5.11, 6.1-6.3	Stoichiometry (cont'd.); Types of Reactions and Solution Stoichiometry (in part)	C5HW2
Oct. 16	6	6.4-6.10	Types of Chemical Reactions and Solution Stoichiometry (cont'd.)	C6HW1b
Oct. 23-25	Exam over Chapters 4, 5, 6		Exam II at CASA (reserve time at casa.uh.edu , dates may change)	
Oct. 23	7	7.1-7.7	Chemical Energy	C7HW1
Oct. 30	8	3.4, 8.1-8.5	Lattice Energy (3.4); Gases (in part)	C7/8HW
Nov. 6	8	8.6-8.10	Gases (cont'd.)	C8HW2
Nov. 13, 20-21	9	9.1-9.6	Liquids and Solids (in part)	C9HW1
Nov. 20-21	Exam over Chapters 7, 8, 9 (part)		Exam III at CASA (reserve time at casa.uh.edu , dates may change)	
Nov. 22-25	Thanksgiving Holiday			
Nov. 27	9	9.7-9.10	Liquids and Solids (cont'd.)	C9HW2
Dec. 6-9	Comprehensive Final Exam		Final Exam at CASA (reserve time at casa.uh.edu , dates may change)	

READ THIS -Important Class Policies and Information-READ THIS

- Lecture attendance is **required**. Turn off all devices except allowed calculators during every class and every examination!!
- Be sure to acquaint yourself with information on the **enrollment cap**, “**three-peat**” rule and **6 W** rule available in the [UH Student Handbook](#).
- Preparation Assessment (PA)** opens **Mon. Aug. 14** and must be completed at CASA by **., Aug. 29**. **Students who passed the PA in a previous semester are still required to take it again. Students who passed CHEM 1301 are still required to take the PA test. If you score 4 or less on the PA test or miss it**, you will be blocked from doing homework or taking tests. In that case, you must DROP CHEM 1331. WE CANNOT DROP YOU - YOU MUST DROP YOURSELF on myUH. If you do not drop CHEM 1331, you will receive a course grade of **F** which will go on your permanent record.
- Special Dates: Sept. 6:** last day to drop without a grade; **Oct. 31:** last day to drop with a W. The final exam is at a special time, **Wed., 12/6-Sat. 12/9**.
- Weekly homework assignments and exams are given on Blackboard (Bb), www.uh.edu/blackboard. Use your CougarNet ID and pswd to log in to AccessUH and go from there to Bb. Practice exams and homework on Bb, practice and explanatory materials delivered on paper, explanatory videos, and in-person and electronic exam reviews are given solely at the discretion of the instructor.
- Students missing or failing (<8/12) **more than 3 HW's will be forced to drop**. If you don't submit a HW for any reason, including due to legitimate excused absence, the missed HW will count as one of the two dropped homework assignments.
- CHEM 1331 **exams** are given only at CASA. Students must reserve time for tests on www.casa.uh.edu and **adhere to the CASA procedures and rules**.
- No exams will be dropped. Exam scores will not be curved.** The grading scale below will apply. Final exam may include a standardized national test.
- No programmable or graphing **calculators** or devices with alpha keys or communication capability are allowed in exams. ([UH Academic Honesty Policy](#))
- Examination questions include **multiple choice** and **fill-in-the-answer** types. Three **midterm exams** (20 questions each) count **60%** of the total grade.
- The comprehensive final examination contains 34 questions counting **34%** of the total grade. Homework counts **6%** of the total grade.
- Grade scale%: A 90 and above A- 85-89 B+ 80-84 B 76-79 B-72-75 C+ 68-71 C 64-67 C- 60-63 D+ 56-59 D 52-55 D- 50-5 F 49 & below**
- Students have 7 calendar days after exams or HW assignments close to resolve questions about scores (2 days after final exam). **No changes after that.**
- There are **no makeup exams**; missed exams count **zero**. If you miss an exam because of a personal medical emergency, serious accident, death in the family, or military deployment, permission may be given, solely at the instructor's option, to use the final exam score to calculate the missing score. Documentation (paper, not email!) must be presented to verify your absence: a physician's note with a printed physician's name and phone number, police report with a case number, printed obituary, or deployment orders. Only one missed exam is possible; a second missed midterm or a missed final exam after missing a midterm exam will result in a score of zero. Missing an exam on a religious Holy Day can be treated as an excused absence if you notify the instructor before the exam. After-the-fact excuses for “no shows” will not be accepted.
- An **Incomplete Grade** will be awarded ONLY if a student who is otherwise passing misses the final exam for a documented legitimate reason beyond his or her control. The Instructor alone will decide whether to accept the student's documentation for missing the final exam. If the Instructor does not determine that the student missed the final exam for a legitimate reason, the student will not receive an Incomplete Grade and the final exam score will be marked as zero.
- To remove an I grade, students must take the final exam at the time and place assigned by the Instructor or his/her representative. If you fail to take the final exam at the time and place assigned by the Instructor, you will receive a zero on the final and the zero score will be used to compute your final letter grade.

Students are responsible for learning the material in each of the items and tables that follow:

1. Names and symbols of first 36 elements in the periodic table (inside front cover)	6. Table 3-6 Common Type II Cations
2. Table R-1 The Fundamental SI Units	7. Table 3-7 Common Polyatomic Ions
3. Table R-2 The Prefixes Used in the SI System	8. Table 3-9 Names of Acids that Do Not Contain Oxygen
4. For Review (p 27) and Appendix A (A1-A10)	9. Table 3-10 Names of Some Oxygen-Containing Acids
5. Table 3-5 Common Monatomic Anions and Cations	10. Table 6-1 Simple Rules for the Solubility of Salts in Water

Topics to be Omitted: *There will be no exam questions covering the following topics:*

1. Calculations using the van der Waals equation (p. 356)	3. MO of Heteronuclear diatomics and polyatomics (p. 191-192, 194)
2. Calculation of DeBroglie wavelengths (p. 59-60)	4. Calc. of atomic radius, formula mass or density from unit cell information (p 377-8)

- If you need to drop this course for any reason, it is your sole responsibility to do so. The instructor cannot drop the course for you. You must do this yourself.

UH CAPS Statement

Counseling and Psychological Services (CAPS) can help students who are having difficulties managing stress, adjusting to college, or feeling sad and hopeless. You can reach CAPS (www.uh.edu/caps) by calling 713-743-5454 during and after business hours for routine appointments or if you or someone you know is in crisis. No appointment is necessary for the “Let's Talk” program, a drop-in consultation service at convenient locations and hours around campus. http://www.uh.edu/caps/outreach/lets_talk.html

Graduate/Professional Colleges:

Counseling and Psychological Services (CAPS) can help students who are having difficulties managing stress, adjusting to the demands of a professional program, or feeling sad and hopeless. You can reach CAPS (www.uh.edu/caps) by calling 713-743-5454 during and after business hours for routine appointments or if you or someone you know is in crisis. No appointment is necessary for the “Let's Talk” program, a drop-in consultation service at convenient locations and hours around campus. http://www.uh.edu/caps/outreach/lets_talk.html