

CHEMISTRY 1210 General Chemistry I Syllabus

Course Description

Chemistry 1210 is a four-credit course that consists of three lectures (section 001) per week. Chemistry 1215 is the companion one-credit lab course. Chemistry 1215 meets one three-hour period per week. CHEM 1210/1215 are general chemistry courses that are comparable to any science majors' sequence taught at major state universities in the United States. As a student, you are expected to perform at a level that is commensurate with students from other institutions such as Pennsylvania State University, University of Arizona, University of Wisconsin-Madison, and University of California-Berkeley. We expect excellence from you as well as from ourselves.

Instructor

Jeff Statler
North Henry Eyring Chemistry Building (NHEB or simply HEB) 1011
MWF – Lecture – 10:00-11:30 AM – HEB 2008
TH – Office Hours 9:00-10:30 AM – HEB 1011
801-581-7288
statler@chem.utah.edu

Assistant Connie Gorton – HEB 2170 – (801)581-5074

Required Materials

CHEMISTRY AN ATOMS FIRST APPROACH: First Edition,
Zumdahl and Zumdahl, CENGAGE Learning, 2012.

Turning Technologies PRS Clicker

Survival Guide for General Chemistry with Math Review and Proficiency Questions, 2nd Edition

A scientific calculator capable of log/exponential functions and scientific notation. PROGRAMMABLE CALCULATORS OR OTHER ELECTRONIC DEVICES CAPABLE OF STORING ALPHANUMERIC DATA ARE NOT ALLOWED FOR USE ON EXAMS. TI-30 calculators which sell for ~ \$12 are appropriate and available in the University Bookstore.

Final Grades

Final grades in CHEM 1210 will be calculated on the following basis.

Assignment	% per assignment	Total % of final grade
Two midterm exams	15%	30%
Final exam	30%	30%
Homework	# <i>correct</i> /total number	20%
Lecture Clicker Exercises	# <i>correct</i> /total number	<u>20%</u>
		100%
Discussion section participation	# <i>correct</i> /total number	Up to 5% extra credit

Final grades will be assigned on the following basis:

A	≥ 93.00%	B+	89.99 – 87.00%	C+	79.99 – 77.00%		
A-	92.99 – 90.00%	B	86.99 – 83.00%	C	76.99 – 73.00%	D	69.99 – 60.00%
		B-	82.99 – 80.00%	C-	72.99 – 70.00%	E	<59.99%

FINAL GRADES IN CHEM 1220 WILL NOT BE CURVED AT THE END OF THE SEMESTER.

Final grades are not posted to Canvas nor will your instructor provide you with that information. All students can access their grades via the PeopleSoft system once they are posted and released by the Registrars Office.

Course Policies: General

- CHEM 1210 and 1215 should be taken concurrently. CHEM 1215 is an independent and separate course from CHEM 1210. Your grade in CHEM 1210 is not averaged with your CHEM 1215 grade nor vice versa. CHEM 1215 is required for most majors that require CHEM 1210.
- The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability Services, 162 Olpin Union Building, 581-5020. CDS will work with you and the instructor to make arrangements for accommodations. All written information in this course can be made available in alternative format with prior notification to the Center for Disability Services.

Assignments

- The following Chapters will be covered in CHEM 1210
 - Review Chapter – Measurement & Calculations
 - Chapter 1 – Chemical Foundations
 - Chapter 2 – Atomic Structure and Periodicity
 - Chapter 3 – Atoms to Molecules
 - Chapter 4 – Bonding: General Concepts
 - Chapter 5 – Molecular Structures & Orbitals
 - Chapter 6 – Chemical Energy
 - Chapter 7 – Gases
 - Chapter 8 – Liquids & Solids (*briefly*)
 - Chapter 9 – Stoichiometry
 - Chapter 10 – Types of Chemical Reactions & Solution Stoichiometry

It is a good idea to work numerous problems in the back of the chapters. This will improve your familiarity with the material.

Attendance

- Attendance is mandatory in CHEM 1210 however no attendance records are kept. Clicker responses will be some indication of your attendance/participation. It is strongly recommended that you attend class since students who show up for lectures do better in the class.
- You should schedule all activities such as advising appointments, preregistration, Regents Examinations, etc. early in the semester so that they do not interfere with regularly scheduled assignments or labs. Such absences are not excused.
- Assignments or labs missed because of participation in officially scheduled University of Utah functions will be considered as excused absences. Typically this means that we will average your other scores for the missed assignment and substitute the average score. A written statement by the sponsoring University of Utah faculty member, on University Department letterhead, must be submitted to your instructor one week prior to the function to receive an excused absence. This does *not* include club sports sponsored by Associated Students of the University of Utah.
- **You are responsible for announcements made at the beginning of Lecture! Absence from class does not relieve you of this responsibility.**

Discussion Sessions:

CHEM 1210 students must be registered in a Discussion Section.

- The first discussion sections will be held on Wednesday, May 15th and Thursday, May 16th.
- Learning to solve problems in general chemistry is the focus of the discussions, which are led by a teaching assistant (TA). Discussions are not meant to be repetitions of the class lectures, and in some cases will present material that your lecturer does not cover in class. Your TA's primary job is to help you solve chemical problems. You will get far more out of discussion if you try to solve the problem sets before each session. The problems solved during discussion sections are designed to help you improve your problem solving skills. They also provide up to 5% extra credit for this course. Your responses to these problems will be collected through the Clicker Response devices.
- If you have any complaints about your TA, bring them to your class instructor (Mr. Statler) and he will speak to the TA about the issue without revealing your identity.

Tutoring Room

- The Chemistry Department has a tutoring area in room 1316 of the Chemistry Building. It is open and available to you from 8:00 AM to 5:00 or 6:00 PM on Monday to Friday. Each general chemistry TA is required to spend at least 2 hours per week there. We will post a schedule for you in the room as soon as the times are assigned.
- This is the perfect time and place for you to get one-on-one tutoring from one of our TA's. Please take advantage of this opportunity.

Supplemental Instruction

- The Supplemental Instruction Program, called SI for short, is offered in this course to provide organized study sessions. These sessions are free and open to all students in the course and are led by an undergraduate who has done well in this subject area. Your SI leader will be attending classes, reading the material, and doing any relevant assignments to be prepared for the SI sessions. The purpose of SI is to see that each of you has the opportunity to do as well as you would like to in this course. **In SI sessions, we will review, organize, and clarify the material from lectures; teach you ways to develop effective study skills for this course; and help you prepare for exams.** Your SI leader will schedule 2 or 3 meetings per week convenient to the majority of your schedules. Attendance is voluntary, and you may attend as many or as few sessions as you like.

Homework

- Homework problem sets are assigned at least 24 hours prior to each class, and are to be completed online using OWL. Completing these assignments is an important part of ensuring your success in the course. Experience with prior classes shows that if you score at least 80% on the OWL assignments you will have a very high probability of passing the course.
- Instructions for registering yourself into the OWL system are given in the packet contained in your textbook purchase. Please follow those instructions.
- **Late homework submissions will not be counted.**

Lecture (in-class) clicker exercises

- In class clicker exercises will be administered in class using the Turning Point Technologies PRS clicker system.
- Only students who attend that day's lecture in their assigned lecture section and have their registered and operable PRS clickers are entitled to participate. There will be no makeup in class exercises administered. **Any students who bring extra clickers to class to answer for their associates are in violation of the University's Academic Honesty code. All students who participate in this activity will receive an E for the course.**
- During each class session clicker exercises will be given that are designed to reinforce and expand your knowledge of the subjects being studied that day. Students will work in groups to answer these questions. Only "correct" answers will receive credit. There are no "participation points."
- At the end of the semester, 20% of your average accumulated clicker points will be included as your in class clicker exercise score for CHEM 1210.
- It is your responsibility to correctly register your clicker identification through the University of Utah Canvas system associated with this course. If you do not register correctly, your UID and name will not be associated with your clicker and you will not receive credit for your clicker exercises.
- At the start of the semester, one noncredit clicker exercise will be given so that everyone has a chance to see if their clicker is working and that they have correctly registered through Canvas. Once you have been given this opportunity to assess and fix your registration, it is your responsibility to do so. The Chemistry Department will **NOT** assume the responsibility of fixing your registration nor will we give retroactive clicker exercise credit to students who do this later in the semester.
- Any questions regarding credit on a clicker exercise question must be submitted in writing within two days after the clicker exercise was administered. Any questions regarding clicker exercise credit will not be considered commencing two days after the clicker exercise.

Exams

- The material covered on each examination will include everything in the assigned chapters except material that is explicitly excluded. An announcement of the point at which each exam will "stop" will be made in class and posted on the Canvas site before each exam.
- To be fair to all, ***questions about what will be covered on exams will be answered in class only.*** No such questions will be answered by telephone or e-mail.
- The only legitimate excuses for missing your testing period are extenuating circumstances that are beyond your control. Examples of these circumstances are illness, death in the family, or car accidents on the way to take the test. Forgetting when to come take your exam or sleeping through your exam period are not legitimate excuses. Excuses must be accompanied with proper documentation. **Students that miss an exam due to illness must bring documentation from a physician stating that they were seen in the physician's office and that they were too ill to attend classes on that date.** Legitimate excuses must be documented within two days of the missed exam period. If you miss your exam period because of extenuating circumstances, it is your responsibility to inform your instructor in a timely fashion. Your instructor will then discuss with you appropriate measures to remedy the situation.
- Students who arrive late for the exam will be allowed to begin the exam at the time they arrive but will lose all of the time they are late on the exam.
- Exams will be given in the University's testing center in the Marriott Library at pre-scheduled times on the test days. Each exam will last approximately 90 minutes. The exams will consist of multiple-choice problems.
- **You must bring a clearly legible form of identification with you to every exam. The ID must have a clearly recognizable picture of you on it. Acceptable forms of identification are: (1) University of Utah ID Card, (2) Driver's license, (3) Passport, or (4) Military ID card. You must also bring your calculator and a pen or pencil. Only approved calculators can be used in CHEM 1210 exam sessions. You will be provided with scratch paper and a periodic chart.**
- Exam scores are typically posted on the Canvas grade book within a few school days of the last exam day. A message will be posted on the Canvas Discussion area letting everyone know when grades are posted.
- Any questions regarding credit on an exam question must be submitted in writing within two days after the grades have been posted on Canvas. Any questions regarding exam credit will not be considered after two days.
- Exams will be given on the following dates:

Midterm Exam 1	Tuesday & Wednesday, June 4th & 5th
Midterm Exam 2	Tuesday & Wednesday, July 2nd & 3rd

Academic Dishonesty

- By submitting an OWL assignment, you are representing that it is your own work and that you have followed the rules associated with the assignment. Incidents of academic misconduct (e.g. cheating, plagiarizing, research misconduct, misrepresenting one's work, and/or inappropriately collaborating on an assignment) will be dealt with severely in accordance with the Student Code (<http://www.regulations.utah.edu/academics/6-400.html>). A single instance of academic misconduct may result in a failing grade for the course; however, multiple instances of misconduct may result in probation, suspension or dismissal from a program, suspension or dismissal from the University, or revocation of a degree or certificate. Incidents of academic dishonesty will be dealt with severely. Anyone caught cheating on an exam will be referred to the Dean for immediate disciplinary action and should expect to receive an 'E' in the course. Additionally, a letter detailing the cheating incident will be put in the student's permanent academic file.
- Similarly, you are ethically only allowed to use *one clicker device*. If you are observed to be in possession on more than one clicker device during lecture or discussion, this will be considered academic dishonesty and will be dealt with as described above.

Withdrawal Instructions

- Subject to changes in the official University of Utah Calendar, students may drop (delete) any class without penalty during the first week of the term. The last day to drop (delete) a class without tuition penalties is Wednesday, May 22nd. It is possible to withdraw from the course up to Friday, June 21st, but you will still have to pay tuition for the course and a "W" will appear on your transcript. You do NOT need the instructor's signature to withdraw. After June 21st, a student must petition for withdrawal to the Dean's office of their academic college. University policy states that withdrawals after this date should only be granted for "non-academic reasons beyond the student's control." "I want to avoid a bad grade" or similar does not qualify. Students must decide on or before Friday, June 21st if they wish to withdraw from CHEM 1210.
- With respect to the course content, it is the student's obligation to determine, before the last day to drop courses without penalty, when course requirements conflict with the student's sincerely-held core beliefs. If there is such a conflict, the student should consider dropping the class. A student who finds this solution impracticable may request a content accommodation from the instructor. Though the University provides, through this policy, a process by which a student may make such a request, the policy does not oblige the instructor to grant the request, except in those cases when a denial would be arbitrary and capricious or illegal. This request must be made to the instructor in writing, and the student must deliver a copy of the request to the office of the department Chair or to the office of the Dean of the College of Science. The student's request must articulate the burden the requirement would place on the student's beliefs.

Final Exam

- **The assigned time for our Final Exam is Thursday, August 1st, from 10:00-noon. The Final Exam will be given to ALL CHEM 1210 students at the same date and time**
- The only students who will be allowed to take the exam at an alternate time, are those with an exam conflict or three (3) exams in a single day. No other exceptions will be made. Students with exam conflicts or three (3) exams on the same day must look at this website [Final Exam Schedule Conflicts](#) and click on "Final Exam Schedule Conflicts". The procedure for documenting this problem is outlined on the website.
- The key for the Final Exam will not be posted because we are not allowed to post keys for ACS Exams.
- Final Exam scores are not posted to Canvas.
- The second semester ACS exam is given in a 110-minute time frame.

Semester Start and End Dates

- Summer Semester 2013 begins on Monday, May 13th and ends on the final exam date, Thursday, August 1st. Requests to miss the final exam, take it early, etc. because of vacation or other personal plans will be denied.