

General Chemistry I
Chemistry 1211 K
Course Syllabus Spring 2012

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Email is the best way to communicate with the instructor. While sending an email, write the name of the course and then the subject. For example if you want to write about arranging an appointment, the subject should be "1211- appointment". Please send email from gsu email.

Lecture: MWF 1.30 – 2.20 PM (PSC 101)

Text Book: Chemistry Custom edition for GSU

Note: This is a customized book for GSU students. It is a paper back book that has a blue color cover. This book is made from two books Chemistry: A molecular approach and Chemistry: Principles and Modern Applications.

Overall course objectives: By the end of this course students will be able to understand, answer questions and work out problems involving the following topics

- Rules regarding significant figures in mathematical operations and unit conversions
- Basics of atomic structure
- Types of bonding, nomenclature of inorganic compounds, calculations involving empirical formula, molecular formula, conversions among mole, mass and number of particles
- Types of chemical reactions(redox, precipitation, acid-base), calculations involving reaction stoichiometry
- Properties of gases and gas laws
- Laws and concepts involving energy absorption or release in chemical reactions
- Trends in periodic table and electronic configurations
- Structures, shapes and hybridizations involving covalent compounds

Class schedule:

Week of ...	Monday	Wednesday	Friday
Jan 9	Lecture	Lecture	Lecture
Jan 16	-----	Lecture	Q1 , Lecture
Jan 23	Lecture	Lecture	Q2 , Lecture
Jan 30	E1 , Lecture	Lecture	Lecture
Feb 6	Lecture	Lecture	Q3 , Lecture
Feb 13	Lecture	Lecture	Q4 , Lecture
Feb 20	E2 , Lecture	Lecture	Lecture
Feb 27	-----	-----	-----
Mar 5	Lecture	Lecture	Q5 , Lecture
Mar 12	Lecture	Lecture	Q6 , Lecture
Mar 19	E3 , Lecture	Lecture	Lecture
Mar 26	Lecture	Lecture	Lecture
Apr 2	Lecture	Lecture	Q7 , Lecture
Apr 9	Lecture	Lecture	Q8 , Lecture
Apr 16	E4 , Lecture	Lecture	Lecture
Apr 23	Lecture	---	---

Final exam: April 25th, 2012 1.30 PM. Please plan to be in the classroom by 1.00 PM.

Point distribution

Exams (E) (67 points each) (Best 3 of 4)	201
In-class quizzes (Q) (20 points each) (Best 7 of 8)	140
HW	59
Laboratory	200
Final exam (ACS standardized test)	<u>200</u>
Total:	800

Grading:

760 – 800 (95%-100%):	A+
720 – 759 (90%-94%):	A
696 – 719 (87%-89%):	A-
680 – 695 (85%-86%):	B+
640 – 679 (80%-84%):	B
624 – 639 (78%-79%):	B-
584 – 623 (73%-77%):	C+
520 – 583 (65%-72%):	C
480 – 519 (60%-64%):	C-
456 – 479 (57%-59%):	D
<456 (57%):	F

No make-up examination or quizzes will be given. Missed examinations and quizzes will be recorded as a **zero**. The final examination is a standardized test (and *multiple choice*) provided by the American Chemical Society (ACS) and is nationally normalized.

To receive a passing grade in this course, the student MUST

- 1) take the final examination
- 2) meet certain minimum requirements in the laboratory portion of the course (see lab manual).

Examinations: The best 3 of the 4 examination grades will be counted toward the student's grade. Each student is allowed to drop one exam grade. **There will be no make-up (or advance) exams.**

In-class quizzes: The best 7 quiz grades out of 8 will be counted toward the final grade. **There will be no make-up (or advance) quizzes.**

Reading assignments: **At the end of every lecture, the instructor will allot reading assignments from the text book. Some of the questions from the quizzes and exams will be directly taken from reading assignments. It is in the best interest of the students to complete the reading assignments on time.**

HW: HW should be submitted online using "Mastering General Chemistry". Use **Course ID: THOTA1211Sp2012**. Please register after January 2nd, 2012. While registering for the HW choose the First edition of "Chemistry: A molecular approach" by Tro. HW for each chapter will be available as soon as the class discussion of the chapter is completed. It is in the best interest of the students to check the due dates for the HW and submit on time. HW will not be opened once it closes down on the due date.

Laptops in classroom:

Some students use laptop computers to take notes in classroom. Such students **have to sit in the first row** of the classroom. Laptop computers should be used for taking notes **ONLY**. They should not be used for any other purposes.

Talking in the classroom:

It is extremely distracting for the students and the instructor if students are talking (even whispering) in classroom. Please understand that every student has a right to ask questions in classroom. Please do not make **inappropriate facial expressions or talk** when other students are asking questions. It is also not a good idea to “cut-in” the conversation between the instructor and a student. Please be patient and let the instructor and the student finish the conversation before moving on to the next topic.

Leaving class early or arriving late to class:

If you need to leave the classroom early for any reason, please make sure to sit close to the door and leave the room as quietly as possible so as to not disturb other students. Arriving late to the classroom is not permitted. In case a student arrives late for an exam or quiz, no extra time will be given. If there is a valid reason for late arrival, for example an emergency, the student should discuss it with the instructor at the earliest.

Class Attendance and Preparation: Students are responsible for class preparation and for any material presented in the course of the lectures *whether or not it is contained in the textbook*. Chemistry is a *highly* structured course, with each new topic based on others previously developed. Thus it is *critical* for students to keep *consistently* up-to-date in their readings and assignments. To fall even one class period behind is to risk considerable difficulty in mastery of future material.

Therefore students should:

- 1) review previous material, especially if it was not perfectly understood
- 2) complete reading assignments *before* the lecture in which the topics are covered, or at least immediately after the lecture
- 3) complete assigned problems and exercises on time, with an emphasis on mastery of concepts and principles involved rather than looking for a formula that will give the expected answer (*remember that the question can be asked in a different way and not just with different numbers!*)

Students are expected to attend all classes and are responsible for all assignments and materials presented. In the event of unavoidable absences, it is the responsibility *of the student* to find out what materials were covered or what assignments made in his or her absence.

The University requires that faculty members must, on a date after the midpoint of the course to be set by the Provost (or his designee)

1. give a WF to all those students who are on their rolls but no longer taking the class and
2. report the last day the student attended or turned in an assignment.

Some Examples of Unacceptable Student Conduct:

- Not following the testing procedures as instructed.
- Talking while your professor is lecturing.
- Arguing with the professor about student conduct.
- Not sitting up straight with paper directly in front of you during an exam.
- Not keeping your scantron or exam papers covered during an exam.
- Using a disrespectful tone of voice, harsh words or profanity.
- Making inappropriate gestures of any kind.
- Leaving class before the lecture is over.
- Letting your cell phone ring audibly during a lecture or exam.
- Having a cell phone available during a quiz or test.
- Not having your student ID for a quiz or test.
- Arriving late for lecture or for an exam.
- Allowing your laboratory data or answers to be copied.

Cell Phones and Beepers: In consideration of your classmates, turn off all sound alerts during every lecture and examinations. If you must have the cell phone during the daily lectures, please set it to ring on vibrate mode (silent). If you need to be on call during an exam, please inform the instructor and leave the phone with the instructor.

Chemistry Department Policy on Student Conduct and Integrity: The *Georgia State University Policy on Academic Honesty* is in force in this course. This includes but is not necessarily limited to infractions in the area of *plagiarism, cheating on examinations, unauthorized collaborations, falsification, and multiple submissions*. This policy is published in *On Campus: the Student Handbook*, which is available to all members of the university community.

All examinations must represent your individual effort, with no unauthorized aid. To either *give* or *receive* unauthorized information during an examination is cheating, as is the use of *any* unauthorized supplementary material. In addition all laboratory work performed in conjunction with this course must represent your individual effort. Only original data obtained by your own *in-laboratory* experimentation are permitted to be used, except when *expressly authorized* by your laboratory instructor. Data from supplementary sources, handbooks, reference literature, etc. must be *clearly referenced* (title, author, volume, pages(s), etc.). Falsification or destruction of data constitutes cheating as well. Conduct disruptive of class, examinations, or laboratories *or* falsification or destruction of information related to chemistry courses will be taken as a violation of the policies of the Board of Regents of the University System of Georgia and the Georgia State University Student Code of Conduct, Section 6.0. Any suspected offenses may be referred to the Chairman of the Department or the Dean of Students for appropriate disciplinary action.

The foregoing provides a general plan for the course, deviations from which may be necessary. The instructor will announce any such changes in class.