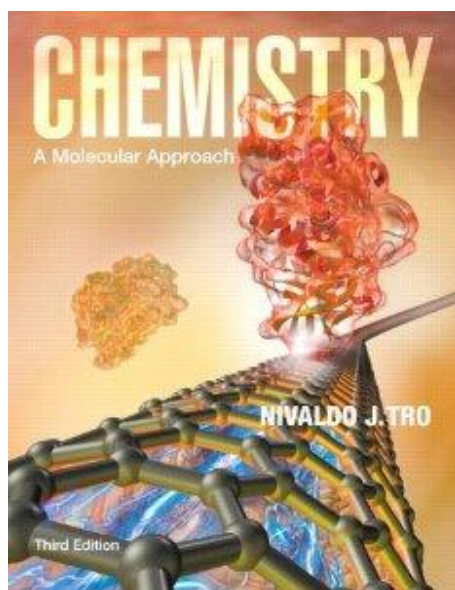


**General Chemistry I -1211K**  
**Course Syllabus-Spring 2014**

**Text Book:** Chemistry: A Molecular Approach with Mastering Chemistry, 3/E by Nivaldo J. Tro

ISBN - 10: 0321804716 | ISBN - 13: 9780321804716

<http://www.pearsonhighered.com/educator/product/Chemistry-A-Molecular-Approach-Plus-MasteringChemistry-with-eText-Access-Card-Package/9780321804716.page>



Homework is assigned through Mastering Chemistry. The course ID is **FERNANDO1211KSPRING2014**. You will need to go into the website <http://masteringchemistry.com> and register. The instructions are fairly easy.

**Instructor:** Dr. Nilmi Fernando

**E-mail:** [nfernando1@gsu.edu](mailto:nfernando1@gsu.edu)

Email is the best way to communicate with the instructor. Please send email from your GSU email account.

**Phone:** (404) 413 – 6003

**Office:** 211 Courtland North

**Office Hours:** MWF 10:30 am- 12:30 pm

**Lecture:** MWF 1:30-2:20 pm (101PSC)

**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:

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

**Class Schedule:** Deviations may be necessary.

<b>Week beginning</b>	<b>Monday</b>	<b>Wednesday</b>	<b>Friday</b>
Jan. 13 – Jan. 17	Chapter 1	Chapters 1	Chapter 2
Jan. 20 – Jan. 24	MLK Holiday	Chapter 2	Chapter 2
Jan. 27 – Jan. 31	Chapter 3	Chapter 3	Chapter 3
Feb. 03 – Feb. 07	Quiz 1; Chapter 3	Chapter 3	Chapter 3
Feb. 10 – Feb. 14	Exam 1	Chapter 4	Chapter 4
Feb. 17 – Feb. 21	Chapter 4	Chapter 4	Chapter 5
Feb. 24 – Feb. 28	Quiz 2; Chapter 5	Chapters 5, 6	Chapter 6
Mar. 03 – Mar. 07	Exam 2	Chapter 6	Chapter 6
Mar. 10 – Mar. 14	Chapter 6	Chapter 7	Chapter 7
Mar. 17 – Mar. 21	Spring Break	Spring Break	Spring Break
Mar. 24 – Mar. 28	Chapter 7	Chapter 7	Quiz 3; Chapter 8
Mar. 31 – Apr. 04	Chapter 8	Chapter 8	Exam 3
Apr. 07 – Apr. 11	Chapter 8	Chapter 9	Chapter 9
Apr. 14 – Apr. 18	Chapter 9	Chapters 9, 10	Chapter 10
Apr. 21 – Apr. 25	Quiz 4; Chapter 10	Chapter 10	Chapter 10
Apr. 28 – May 02	Exam 4	Final (ACS) Exam at 1:30 pm	

\* **March 04<sup>th</sup> 2014 is the semester midpoint. This is the last day to drop the class with a W.**

\* **Final Exam is on Wednesday April 30<sup>th</sup> 2014, at 1:30 pm. Please plan on being in class by 1:15 pm. Duration of exam is 110 min. Final exam is comprehensive covering chapters 1-10.**

**Point distribution:**

Exams (70 points each) (Best 3 of 4)	210
In-class quizzes (25 points each) (Best 3 of 4)	75
Homework (Mastering Chemistry)	115
Laboratory	200
Final exam (ACS standardized test)	<u>200</u>
Total:	800

**Grading Scheme:**

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 (or advance) exams or quizzes will be given.** Missed examinations and quizzes will be recorded as a zero. The final examination is a standardized test (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).

**Instructor reserves the right to seat students during exams and quizzes.**

**Only non-programmable calculators are allowed. Use of programmable calculators in class and lab is considered academic dishonesty.**

**Reading assignments:** At the end of every lecture, the instructor will allot reading assignments from the text book. It is in the best interest of the students to complete the reading assignments on time.

**Homework:** Homework is through Mastering Chemistry: You are responsible for knowing all due dates. Our course ID is **FERNANDO1211KSPRING2014**. You will need to go into the website <http://masteringchemistry.com/> and register using this ID. The instructions are fairly easy.

**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**.

**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 (March 04<sup>th</sup>, 2014) 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.

**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 the 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.