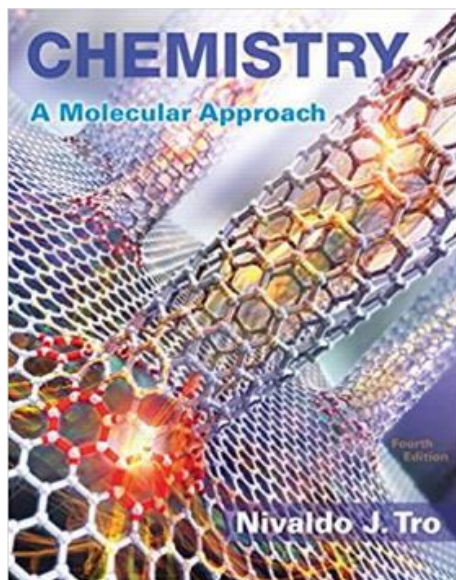


Georgia State University

Chemistry 1211K Principles of Chemistry I Course Syllabus,

Fall 2018

Text: Chemistry: A molecular Approach by Nivaldo Tro, 4-th edition



ISBN-13: 978-0134112831

ISBN-10: 0134112830

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Chemistry A Molecular Approach

CRN: 93968, 93969, 93970, and 85475

Send email from your GSU email account only.

Office phone: (404) 413-5514

Office: Courtland North, Room 201

Lecture Time: T, Th 9:30 – 10:45 am

Lecture Room: Urban Life Auditorium (Conference Room) 220

Office Hours: T 11: 00 – 12: 00 am, W 1:30 – 2: 30 pm

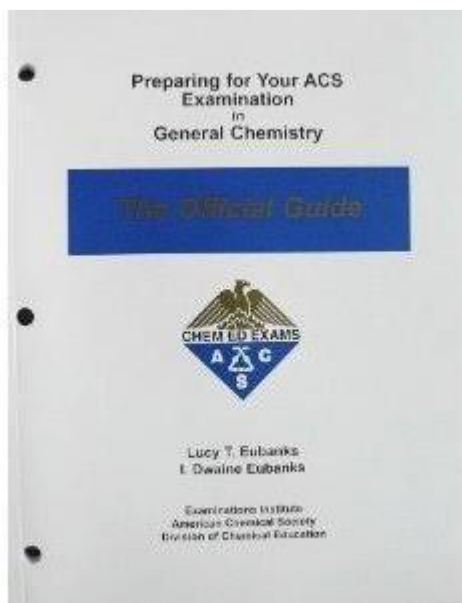
Note regarding office hours: if you come to office hours, please, bring your book, your lecture notes and your attempt at the homework

Course Description: This is the first course in a two-semester sequence covering the fundamental principles and applications of chemistry for science majors. Chapters to be covered: 1 – 10.

Course Requirements: 1) A **scientific non-programmable calculator** is required.

2) Text: Chemistry: A Molecular Approach by Nivaldo Tro

3) Recommended: ACS Study guide. Preparing for Your ACS Examination in General Chemistry. The suggested hand book preparing for ACS Examination for General chemistry: **the official guide, by Lucky T Eubanks and I. Dwaine Eubanks**



ISBN: -13:9780970804204

ISBN: - 10:0970804202

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Learning outcomes:

The goals of this course are set forth by the chemistry department.

- 1) The student should demonstrate a general knowledge of the chemical concepts covered.
- 2) The student should demonstrate the ability to successfully apply math skills previously learned to chemical systems.
- 3) The student should demonstrate the ability to apply chemical principles to problems in physics, biology and medicine.

Learning objectives: Chapter 1-10

- 1) Matter and Measurements and Problem Solving
- 2) Atoms and Elements
- 3) Molecules, Compounds and Chemical Equations
- 4) Chemical Quantities and Aqueous Reactions
- 5) Gases
- 6) Thermochemistry
- 7) The Quantum-Mechanical Model of Atom
- 8) Periodic Properties of the Elements
- 9) Chemical Bonding I: The Lewis Model
- 10) Chemical Bonding II: Molecular shapes, Valence Bond Theory, and Molecular Orbital Theory

Attendance and Preparation Policy:

Students are expected to attend all class meetings. However, attendance in class is not recorded (with some few exceptions). 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 principals 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!)
- 4) the average student needs to do **12-15 hours of work outside of class** (20:80 split between reading and problem solving) in order to earn a passing grade for this class. A student earning high B's and above typically does more than this.

Withdrawal Policy:

A grade of W will be assigned if the student officially withdraws by midpoint. After midpoint, withdrawal will result in a WF grade. 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. Incomplete: An incomplete (I grade) is available only in the event that the course has been essentially completed. If the student misses the final exam due to illness, injury, or other special circumstance, he/she may request an I grade. Documentation will be required confirming the illness or other difficulty. The I grade must be made up within one semester. If not made up within one semester, the I grade automatically reverts to an F. Note that the student may receive an I grade only if he/she is passing the course but is unable to take the final exam only.

Course Grade: The course grade will be determined as a result of a student's individual work as follows:

Major Exams – 4, 1 dropped	270 pts
Assignments- 10	30 pts
Quizzes in class - 10	100 pts
Lab	200 pts*
Final Exam	200 pts*
Total	800 pts

*You must attend your laboratory section – at the end of the semester your laboratory instructor will give me a list of students in their section and their laboratory grades.

Letter grades are assigned based on the following scale (which may be varied slightly):

Total Course Points Earned Total Course Points Earned (%) Letter Grade

Grading:

Points	Percent	Letter Grade
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

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

- 1) Take successfully the final examination.
- 2) Meet certain minimum requirements in the laboratory portion of the course

Examinations and Quizzes: There are 4 major Exams in this course during Fall semester. One of the exam with lowest grade will be dropped. There will be 10 quizzes on 10 chapters. There will be 10 Homework Assignments. There will be no make-up exams and quizzes. Missed examinations, quizzes and assignments will receive a grade of zero.

Note: Dr. Parmar will not discuss grades on phone or via email due to privacy issues.

The only electronic device allowed during exams is a scientific NON-PROGRAMMABLE calculator. Students are not allowed to use the following devices during exams such as: Computers, iPods, Cell phones, iPads, Computerized dictionaries, Palm pilots, Programmable calculators, Molecular models.

Final examination is a standardized, multiple choice examination covering all the material from CHEM 1211. This test is provided by the American Chemical Society (ACS) and is nationally normalized. It is the student's responsibility to be on time for the administration of exams. No extra time will be given to those who show up late for the exam. Final exam is comprehensive. The date for Final Exam will be announced later.

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.

Americans with Disabilities Act Statement:

If you are a student who is disabled as defined under the Americans with Disabilities Act and require assistance or support services, please seek assistance through the Office of Disability Services.

Affirmative Action Statement:

Georgia State University adheres to affirmative action policies designed to promote diversity and equal opportunity for all faculty and students.

Non-Discrimination:

Georgia State University supports the Civil Rights Act of 1964, Executive Order #11246, Title IX of the Educational Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act. No person shall, on the basis of age, race, religion, color, gender, sexual orientation, national origin or disability, be excluded from participation in, or be denied the benefits of, or be subjected to discrimination under any program or activity of the college.

Statement of Syllabus and Assignments:

The foregoing provides a general plan for the course, deviations from which may be necessary. The Instructor will announce any such changes in class. Please remember: one of the best ways to prepare.

For examinations in general chemistry, is to work as many problems as possible.

Students have to check iCollege on daily basis.