

Georgia State University
Chemistry 1211K
Course Syllabus, Spring 2014

**Text: Chemistry: A molecular Approach by Nivaldo Tro with
Mastering General Chemistry 3 e
Mastering Chemistry
Course ID: MCSTROEVA15726**

Instructor: Dr. Elina Stroeva

Email: estroeva@gsu.edu

Send email from your GSU email account only, and mention the course in the subject

Office phone: (404) 413-5899

Office: 208 Courtland North

Lecture Time: T, R 4:00-5:15 pm

Lecture Room: 220 Urban Life

Office Hours: T 1:30 – 3:30 pm, W 2:00 – 4:00 pm (tutorial), R 2:00 – 3:30 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

Important Dates:

Jan 13	Classes begin
Jan 20	Holiday – MLK
Mar 4	Semester midpoint, last day to withdraw with a W
Mar 17-23	Spring Break
Apr 28	Last day of classes
May 1	Final exam (16:15 pm – 18:45 pm)

Course Requirements:

- 1) A **scientific non-programmable calculator** is required. An example of an acceptable calculator is the Texas Instruments TI-30XA.
- 2) Text: Chemistry: A Molecular Approach by Nivaldo Tro with Mastering General Chemistry, 3e

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.

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) complete Pre-lecture Quiz, posted on D2L before each chapter.
- 5) 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.

Classroom Conduct:

Students are expected to act with respect for the professor and other members of the class. In order to maintain a beneficial learning environment, *Rude* and/or *Disruptive* behavior will **NOT** be tolerated. Any student whose conduct is deemed inappropriate will be asked to leave the class.

The following are considered rude and disruptive:

Conducting private conversations in the class during lecture/discussion.

Not paying attention during lecture/discussion.

Consistently arriving late for class. (In the event of a late arrival, enter and take a seat *quietly*.)

Leaving class early. (This should occur only in an emergency)

Walking in-and-out of the classroom while class is in session.

Ringling beepers and cellular phones. (These should be turned off sound while in class.)

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

Major Exams (Best 3/4)	195 pts
Quizzes (Best 8 /10)	112 pts
Homework	50 pts
Pre-lecture Quizzes	25 pts
Post-lecture Quizzes	18 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.

** There are no extra credits available for this course.

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

<u>Total Course Points Earned</u>	<u>Total Course Points Earned (%)</u>	<u>Letter Grade</u>
>765	>95.6	A+
720-764	90.0-95.5	A
696-719	87.0-89.9	A-
684-695	85.5-86.9	B+
640-683	80.0-85.4	B
616-639	77.0-79.9	B-
584-615	73.0-76.9	C+
560-583	70.0-72.9	C
536-559	67.0-69.9	C-
480-535	60.0-66.9	D
<480	<60.0	F

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 exams.** Missed examinations will receive a grade of *zero*.

Note:

1. Dr. Stroeve does not reveal grades via email or phone due to privacy issues.
2. Dr. Stroeve follows the **24 hour rule**: she does not answer the questions regarding exams 24 hours before and after exams.

The only electronic device allowed during exams is a scientific NON-POGRAMABLE calculator. Students are *not* allowed to use the following devices during exams: Computers,

IPods, Cell phones, iPads, Computerized dictionaries, Palm pilots, Programmable calculators, Molecular models.

Quizzes: 5 **in class** quizzes and 5 **on-line** quizzes will be given on Desire2Learn. Students are responsible for checking due dates on Desire2Learn.

In class quizzes: These quizzes will mostly be algorithmic solving problems. Students' ability to set up and solve numerical problems will be checked. The best 4 quiz grades out of 5 will be counted toward the final grade. **There will be no make-up quizzes.**

On-line quizzes: These quizzes will have a similar format as in class quizzes. They will be "multiple choice" and can be both definition type questions as well as algorithmic problem solving. The best 4 quiz grades out of 5 will be counted toward the final grade. **There will be no make-up quizzes.**

Pre-Lecture quizzes: These are on-line quizzes. They will include questions on definitions and major concepts (possibly a couple of basic calculations problems). The main idea is to skim through the textbook before the lecture to get familiar with terminology, strategies, and main concepts. Quizzes will be set up via D2L. Each quiz will be opened 24 hours before new chapter is given.

Post-Lecture quizzes: These are on-line quizzes. They will include questions on definitions and major concepts (possibly a couple of basic calculations problems) covered in class. The main idea is to increase student participation during class discussions, to make more effective use of lecture time, and to improve students' performance on subsequent examinations. Quizzes will be set up via D2L. Each quiz will be opened 24 hours immediately after each lecture is given.

Final examination is a standardized, multiple choice examination covering all the material from CH1211K. 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.**

Homework: Will be assigned on Mastering Chemistry, students are responsible for checking due dates, availability etc. Homework should be submitted online using "Mastering General Chemistry". Homework that is "handed-in" in class will not be accepted. Homework assignments should be submitted by the due date and time. Mastering Chemistry is going to be the primary resource for students to practice problem solving. (Note the points shown on mastering chemistry are not equal to the points you will be awarded). The graded homework is designated chapter 1-10 and introduction to Mastering Chemistry (all categorized as homework). (All other problem sets on Mastering Chemistry are for practice and are not graded).

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.

Statement of 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.

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. One of the best ways to prepare for examinations in general chemistry is to work as many problems as possible. This includes problems from the end of chapter problem sets as well as the Mastering General Chemistry problem sets.

Tentative schedule: Spring 2014 (might be changed, under instructor's discretion)

Date	Chapter	Check point
01/14/14	Orientation, Chapter 1	
01/16/14	Chapter 1	On-line Pre-lecture quiz Ch1
01/21/14	Chapter 1	Quiz Chapter 1
01/23/14	Chapter 2	On-line Pre-lecture quiz Ch2
01/28/14	Chapter 2	D2L Chapter 2 Quiz
01/30/14		Exam I (chapters 1-2)
02/04/14	Chapter 3	On-line Pre-lecture quiz Ch3
02/06/14	Chapter 3	
02/11/14	Chapter 3	Quiz Chapter 3
02/13/14	Chapter 4	On-line Pre-lecture quiz Ch4
02/18/14	Chapter 4	D2L Chapter 4 Quiz
02/20/14		Exam II (chapters 3-4)
02/25/14	Chapter 5	On-line Pre-lecture quiz Ch5
02/27/14	Chapter 5	
03/04/14	Chapter 5	Quiz Chapter 5
03/06/14	Chapter 6	On-line Pre-lecture quiz Ch6
03/11/14	Chapter 6	D2L Chapter 6 Quiz
03/13/14		Exam III (chapters 5-6)
03/25/14	Chapter 7	On-line Pre-lecture quiz Ch7
03/27/14	Chapter 7	
04/01/14	Chapter 7	Quiz Chapter 7
04/03/14	Chapter 8	On-line Pre-lecture quiz Ch8
04/08/14	Chapter 8	D2L Chapter 8
04/10/14	Chapter 9	On-line Pre-lecture quiz Ch9
04/15/14	Chapter 9	Quiz Chapter 9
04/17/14		Exam IV (chapters 7-9)
04/22/14	Chapter 10	On-line Pre-lecture quiz Ch10
04/24/14	Chapter 10	D2L Chapter 10
05/01/14		FINAL EXAM