General Chemistry I (Chemistry 1211) 2018 Fall

Course Goals

This course provides an introduction to concept and chemical information that is essential to various applications. It aims to build a knowledge foundation for higher level chemistry course. Chem1211 is the prerequisite for all Chemistry and Biology courses at GSU.

Instructor

Dr. Yao Xin
Office: Langdale 861
Contact: yxin3@gsu.edu
Class Meets: MWF 11:00-11:50
Office Hours: W 12:30-3:30 pm

Course Material

General Chemistry I, Chem 1211, CRN 89834, 80099, 84270, 84859, 81104, 89836, 80100, 80098, 80097, 88903, 84541, 83983
Text: Chemistry: A Molecular Approach by Nivaldo Tro, 3rd Edition
ISBN-13: 978-0321809247 ISBN-10: 0321809246
Recommended material: Preparing for your ACS examination in general Chemistry: The official Guide, by Lucy T. Eubanks and I. Dwaine Eubanks.
TAs: will provide TAs' contact information on the first day of class

Lab: Lab sessions will be taught by different instructors starting Aug. 28.

General rules

The last withdraw date is October 14 and will receive a "W".
No make-up quizzes and exams.
The smart phone and programmable calculator not allowed in the quizzes and exams
Always wear safety glasses and shoes which cover all toes in the lab
The instructor reserves the right to seat students during quizzes and exams.

Cheating

Academic misconduct (giving or receiving information during quizzes and exams, representing other's lab work, or unauthorized collaboration) will be dealt with Student Code of Conduct and Administrative Policies Page7. It may result in a "F" for the course. Multiple misconducts may result in suspension, expulsion, transcript annotations.

http://codeofconduct.gsu.edu/files/2013/03/2014-2015-Section-II-Academic-Conduct-Student-Code-of-Conduct.pdf

Chemistry Tutor Center

https://chemistry.gsu.edu/ctc/

Grading

The course grade will be assigned according to the following point distribution

Component	**Maximum Points**
Best 3 of 4 major exams	300
Best 7 of 10 quizzes (15 points each)	100
Final exam (ACS)	200
Laboratory	200
Total Possible Points	800

Letter grades will be assigned as follows:

Total Points	**Grades**
> 750	A+
700-750	A
670-699	A-
650-669	B+
600-649	B
580-599	B-
550-579	C+
500-549	C
450-499	C-
400- 449	D
< 400	F

There is no makeup quiz or makeup test.

Tentative Schedule (Change may occur.)

Week 1 (8/20): Chap1 Matter, its properties and measurements; **Quiz 1**
Week 2 (8/27): Chap2 Atoms and Elements; **Quiz 2**
Week 3 (9/3): Chap3 Molecules, Compounds, and Chemical Equations; **Quiz 3**
Week 4: (9/10) Catch up and review; **Test 1**
Week 5: (9/17) Chap4 Chemical Quantities and Aqueous Reactions; **Quiz 4**
Week 6: (9/24) Chap5 Gases; **Quiz 5**
Week 7: (10/1) Catch up and review; **Test 2**
Week 8: (10/8) Chap6 Thermochemistry; **Quiz 6**
Week 9: (10/15) Chap7 The Quantum-Mechanical Model of the Atom; **Quiz 7**
Week 10: (10/22) Chap8 Periodic Properties of the Elements; **Quiz 8**
Week 11: (10/29) Catch up and review; **Test 3**
Week 12: (11/5) Chap9 Chemical bonding I: The Lewis Model; **Quiz 9**
Week 13: (11/12) Chap10 Chemical bonding II: molecular shapes, valence bond theory, and molecular orbital theory; **Quiz 10**
Week 14: (11/19)Thanks Giving Holidays
Week 15: (11/26); Catch up and Review **Test 4**
Week 16: (12/3) Final Review and **ACS exam**

Final (ACS) Exam is on Wed. 12/5 at 11:00-12:50 am in the regular lecture room. It is the ACS standardized exam covering Chapters 1-10.

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