

## General Chemistry I (Chemistry 1211) 2019 Spring



### 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](mailto:yxin3@gsu.edu)

Class Meets: MWF 9:30-10:20 am at Classroom South 608

Office Hours: MW 10:40 am -12:10 pm

### Course Material

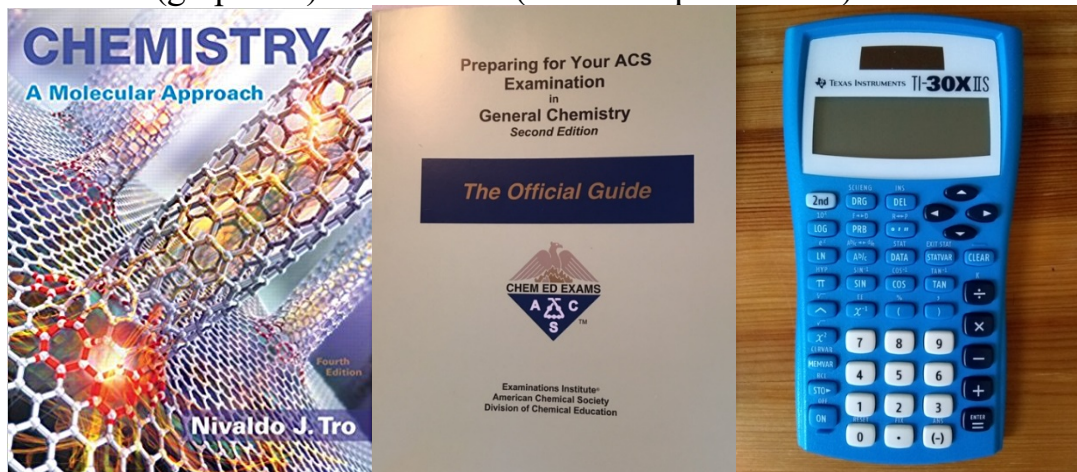
- **Text: Chemistry: A Molecular Approach** by Nivaldo Tro, 4<sup>th</sup> Edition or 3<sup>rd</sup> Edition ISBN-13: 978-0321809247 ISBN-10: 0321809246
- **Preparing for your ACS examination in general Chemistry: The official Guide**, Second Edition, by Lucy T. Eubanks and I. Dwaine Eubanks.

You can buy the ACS study guide at

<http://shopping.na1.netsuite.com/s.nl/c.3773982/it.A/id.1717/.f?sc=11&category=190>

- **A scientific calculator (picture below) is needed.**

Programmable (graphical) calculator (for example TI 84) is **NOT** allowed.



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### General rules and Classroom Conduct

- The last withdraw date is Mar. 5th and will receive a “W”. After midpoint, withdrawal will result in a “WF”.
- No make-up quizzes and exams.
- According to GSU Student Code of Conduct: Policy on Class Attendance, “Students wishing to have an excused absence due to the observation of a religious holiday of special importance must provide advance written request to each instructor by the end of the first week of classes.”
- 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.

**Disruptive students will be asked to leave the classroom.** The following behaviors are considered as disruptive:

- Chatting during lecture
- Speaking disrespectful to the instructor or any classmates.
- Wearing headphones during lecture
- Making inappropriate gestures

### 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 will result in a “F” for the course. Multiple misconducts may result in suspension, expulsion, transcript annotations.

**Chemistry Tutor Center in Sports Arena, room 104**

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

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### Grading

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

<b>Component</b>	<b>Maximum Points</b>
Best 3 of 4 major exams	300
Best 8 of 10 quizzes (12 points each)	100
Final exam (ACS)	200
Laboratory	200
Total Possible Points	800

Letter grades will be assigned as follows:

<b>Total Points</b>	<b>Grades</b>
> 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

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### Tentative Schedule (Change may occur.)

- Week 1: (1/14) Chap1 Matter, its properties and measurements; **Quiz 1**  
Week 2: (1/21) 1/21 Holiday; Chap2 Atoms and Elements; Lab starts; **Quiz 2**  
Week 3: (1/28) Chap3 Molecules, Compounds, and Chemical Equations;  
Week 4: (2/4) **Quiz 3** Catch up and review; **Test 1**  
Week 5: (2/11) Chap4 Chemical Quantities and Aqueous Reactions; **Quiz 4**  
Week 6: (2/18) Chap5 Gases; **Quiz 5**  
Week 7: (2/25) Catch up and review; **Test 2**  
Week 8: (3/4) Chap6 Thermochemistry; **Quiz 6**  
Week 9: (3/11) Chap7 The Quantum-Mechanical Model of the Atom; **Quiz 7**  
Week 10: (3/18) Spring Break  
Week 11: (3/25) Chap8 Periodic Properties of the Elements; **Quiz 8**  
Week 12: (4/1) Catch up and review; **Test 3**  
Week 13: (4/8) Chap9 Chemical bonding I: The Lewis Model; **Quiz 9**  
Week 14: (4/15) Chap10 Chemical bonding II: molecular shapes, valence bond theory **Quiz 10**  
Week 15: (4/22) Catch up and Review **Test 4**  
Week 16: (4/29) Final Review  
Week 17: (5/6) **ACS Final**

### Quizzes and tests dates (change may occur)

- 2/8 Friday Test 1  
3/1 Monday Test 2  
4/5 Monday Test 3  
4/26 Monday Test 4

Final (ACS) Exam is on Mon. in the regular lecture room. It is the ACS standardized exam covering Chapters 1-10.

Lab sessions will be taught by different instructors starting from the second week.

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