

Chemistry 211

Fall 2017

Text: *Principles of General Chemistry*, 3rd Edition by Silberberg and a subscription to ALEKS online homework

Personal Response Device: Turning Technologies Response Card RF (or Smart Phone application), optional

Handouts: All available on-line @ <http://science.marshall.edu/castella/C211.html>

Lecture notes for all chapters	This syllabus and learning objectives
Homework assignments	A set of old tests & answer keys
Study suggestions	An old final exam

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Office hours: Monday, 11:00 a.m. – noon, Science 455 (northeast corner of the floor, LA session)
Wednesday, Friday: 10:00 to 11:00, my office or lab

Other LA sessions, all in Science 455:

10:00 – 11:00 Tuesday – Dr. Frost

1:30 – 3:30 Tuesday – Dr. Kolling

1:30 – 3:30 Thursday – Dr. Wang

2:00 – 3:00 Monday or 11:00 – noon Wednesday – Dr. Day

If you cannot come by during scheduled office hours or if you have questions at other times, please feel free to drop by my office. My schedule is fluid and so scheduling a time is frequently the easiest way to see me. To do this, just see me right before or after class or drop me an email. ***Many students believe that they bother instructors when they ask questions, but helping you learn is the reason why we are here. If you have questions, please ask them.***

If you have questions that you believe can be answered by email and would like to use that method, please feel free to send them to me. I check my email regularly during the day.

<u>Week</u>	<u>Chapter</u>	<u>Week</u>	<u>Chapter</u>
Aug. 21 – 27	1 – 2	9 – 13	7
28 – Sept. 1	2 – 3	16 – 20	7 – 8 (Test 3)
Sept. 6 – 8	3 (Test 1)	23 – 27	8
11 – 15	4	Oct. 30 – Nov. 3	8 – 9
18 – 22	5	Nov. 6 – 10	9 (Test 4)
24 – 29	5 – 6 (Test 2)	13 – 17	10
Oct. 2 – 6	6 – 7	27 – Dec. 1	10 – 11
		Dec. 4 – 8	11 (Test 5)
Dec 9 (Saturday)	10:00 a.m.	Final Exam	

Course Description: A study of the properties of materials and their interactions with each other. Development of theories and applications of the principles of energetics, dynamics and structure. Intended primarily for science majors and pre-professional students. 3 lec. (CR: CHM 217; PR: 'MTH ACT of 23 or better' or 'C or better in CHM 111' or passing placement exam)

Learning objectives	Objective will be taught through...	Objective will be assessed by...
Become familiar with the atomic structure of matter.	-Lecture -Online assignments -Classroom response questions -In-class example problems	-Exams/quizzes -Online assignments -Clicker questions
Develop analytical skills to solve problems presented in a chemical context.	-Lecture -Online assignments -Classroom response questions -In-class example problems	-Exams -Online assignments -Clicker questions
Understand how energy is utilized in natural systems.	-Lecture -Online assignments -Classroom response questions -In-class example problems	-Exams -Online assignments -Clicker questions
Describe and predict the basic chemical bonding patterns that explain the physical and chemical properties of matter.	-Lecture -Online assignments -Classroom response questions -In-class example problems	-Exams -Online assignments -Clicker questions

Attendance

Attendance for this course is optional, but strongly encouraged. With nearly all the material for this course available on the internet, there will be a temptation to miss class more often than if you needed to come to obtain the lecture notes, homework assignments, and other materials. There is a strong correlation between attendance and success in chemistry courses. While good study habits are the most important determiner of success, students who regularly attend class are more likely to keep up with assignments than those who miss frequently.

Grading

Tests will be given on Chapters 1 - 3, 4 & 5, 6 & 7, 8 & 9, and 10 & 11 regardless of the dates listed above. The dates provided on the first page are only approximate. Beginning with the second test, up to 20% of the points may review previous material in this course.

Online homework	75 points
Tests (5 x 100 points)	500 points
Final Exam	<u>200 points</u>
	775 points

The scale for test one is A = 80-100, B = 65 – 79.9, C = 50 – 64.9, D = 40 – 49.9. For the 4 remaining tests the scale is A = 70-100, B = 55 – 69.9, C = 40 – 54.9, D = 30 – 39.9.

The “A” line will be determined by adding together the 5 minimum “A” scores on all of the tests and assignments. The “B,” “C,” and “D” lines will be calculated similarly. The total number of points you score during the semester will be compared with these values.

There are no dropped tests and no make-up tests will be given.

During tests talking to each other and sharing of calculators are forbidden.

Calculators with alphanumeric and/or graphing capabilities are not permitted for tests or the final exam. If you have questions regarding your calculator, I will be glad to look at it. Make sure you do this before the day of a test. Also, you may not use your cell phone as a calculator.

During tests you may not use your own paper or other materials except your pen/pencil and calculator.

Online homework questions. There are two parts to this grade. On 40 points, all topics will count equally. The percentage that you answer correctly over the course of the semester will be multiplied by 40 pts to determine the number of points you receive. The remaining points will equal the average percentage correct you make for the 11 chapters multiplied by 35 points. There are no drops. Grading scale: A = 90-100, B = 80-89.99, C = 70-79.99, and D = 60-69.99.

Due dates for the assignments will be found on the ALEKS website. The due date will depend on when a particular chapter is completed in class. At that point, I will update the next assignment’s due date. The dates listed for later assignments will typically not be accurate because of the way the software works.

Miscellaneous Topics

Marshall University’s policies regarding academic honesty, excused absences, and disabled students may be found at http://www.marshall.edu/wpmu/academic-affairs/?page_id=802.

If a test falls on a day that is cancelled by the university (e.g. a snow day), the test will occur on the next period the class meets.

Please turn off cell phone ringers before class. Failure to do so may result in you being removed from the room, even during a test.

You may not record my lectures without my permission and under no circumstances may they be posted, transferred, or reproduced to any form of media (Internet, print, television, and the like) without my permission.