

Course Title/Number	Principles of Chemistry I / CHM 211 Section 203
Semester/Year	Spring / 2016
Days/Time	MWF / 1:00pm – 1:50pm
Location	473 Science Building
Instructor	John Rakus, Ph.D
Office	478 Science Building
Phone	304-696-6627
E-Mail	rakus@marshall.edu
Office Hours	M: 10:00am-12:00pm (S-460); TWF: 9:30am-11:00am (S-478)
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to www.marshall.edu/academic-affairs and clicking on “Marshall University Policies.” Or, you can access the policies directly by going to www.marshall.edu/academic-affairs/policies/ . Academic Dishonesty/Excused Absence Policy for Undergraduates/Computing Services Acceptable Use/Inclement Weather/Dead Week/Students with Disabilities/Academic Forgiveness/Academic Probation and Suspension/Academic Rights and Responsibilities of Students/Affirmative Action/Sexual Harassment

Course Description: From Catalog

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.

The table below shows the following relationships: How each student learning outcome will be practiced and assessed in the course.

Course student learning outcomes	How students will practice each outcome in this course	How student achievement of each outcome will be assessed in this course
Become familiar with the atomic structure of matter. Students will...	-Lecture -Online assignments -Classroom response questions -In-class example problems	-Exams -Online assignments
Develop analytical skills to solve problems presented in a chemical context.	-Lecture -Online assignments -Classroom response questions -In-class example problems	-Exams -Online assignments
Understand how energy is utilized in natural systems.	-Lecture -Online assignments -Classroom response questions -In-class example problems	-Exams -Online assignments
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

Required Texts, Additional Reading, and Other Materials**Text:** Silberberg, Principles of General Chemistry, 3rd Ed. McGraw Hill.**Additional:** Scientific calculator, Turning Technologies clicker. Aleks account.**Course Requirements/Due Dates**

January 27, 2016 – Exam 1	January 17, 2016 – Aleks 1
February 19, 2016 – Exam 2	January 24, 2016 – Aleks 2
March 14, 2016 – Exam 3	January 31, 2016 – Aleks 3
April 18, 2016 – Exam 4	February 7, 2016 – Aleks 4
April 30, 2016 – Final Exam	February 14, 2016 – Aleks 5
	February 21, 2016 – Aleks 6
	February 28, 2016 – Aleks 7
	March 6, 2016 – Aleks 8
	March 13, 2016 – Aleks 9
	April 3, 2016 – Aleks 10
	April 10, 2016 – Aleks 11
	April 17, 2016 – Aleks 12
	April 24, 2016 – Aleks 13
	April 29, 2015 – Aleks 14

Grading Policy

Exam 1 – 100 points	Average of 12 best Aleks Homeworks – 100 points
Exam 2 – 150 points	Percentage of Aleks topics mastered – 50 points
Exam 3 – 150 points	Clicker Responses – 50 points
Exam 4 – 150 points	LA Attendance – 50 points
Final Exam – 200 points	Total: 1000 points

Attendance Policy

Attendance is strongly encouraged. I will not keep attendance (beyond registration requirements) and attendance is not graded, though missed clicker responses will count against you. Any excused absence approved by the Student Affairs office will be accepted but must be turned in immediately. CHM 211 Learning Assistant (LA) sessions will be held in 460 Science Building on Monday (10am-12pm and 2pm-4pm) and Tuesday (2pm-4pm), starting the second week of class. You will receive 10 points for every 60 minutes of LA session time you attend up to a maximum of 50 points. A formal log of your attendance will be required for verification.

Conduct Policy

I hold my students to the same expectations about conduct and behavior while in class that I have for myself. It is my responsibility to you to provide the best learning environment of which I am capable and, in return, I believe everyone in this classroom deserves the right to be treated with dignity and respect. I encourage questions, interaction and curiosity but I also implore you to consider your classmates' interests in class. I will not demand your unwavering attention if you do not wish to provide it, but I simply ask that you do not disrupt the learning environment in which I am trying to provide.

Technology Policy

Cell phones, tablets and other digital devices are allowed during lecture time provided that they are kept silent and are not used in a disruptive manner. Should I feel that someone is using a device disruptively, I reserve the right to confiscate the device for the remainder of class and/or ask the student to leave. Devices are expressly forbidden during examinations and will be considered a violation of the Academic Integrity Policy.

(Loose) Course Schedule

Week	Dates	Class Topics	Assignment	Notes
1	Jan 11 – Jan 15	Introduction, Chapter 1	Aleks 1: Jan 17 (11:59pm)	
2	Jan 18 – Jan 22	Chapter 2	Aleks 2: Jan 24 (11:59pm)	Jan 18: No Class Jan 19: W period begins
3	Jan 25 – Jan 29	Ch. 2 – Ch. 3	Exam 1: Jan 27 Aleks 3: Jan 31 (11:59pm)	
4	Feb 1 – Feb 5	Ch. 3 cont.	Aleks 4: Feb 7 (11:59pm)	
5	Feb 8 – Feb 12	Ch. 3 - Ch. 4	Aleks 5: Feb 14 (11:59pm)	
6	Feb 15 – Feb 19	Ch. 4 cont.	Exam 2: Feb 19 Aleks 6: Feb 21 (11:59pm)	
7	Feb 22 – Feb 26	Ch. 4 – Ch. 5	Aleks 7: Feb 28 (11:59pm)	
8	Feb 29 – Mar 4	Ch. 5 - Ch. 6	Aleks 8: Mar 6 (11:59pm)	
9	Mar 7 – Mar 11	Ch. 6 cont.	Aleks 9: Mar 13 (11:59pm)	
10	Mar 14 – Mar 18	Chapter 7	Exam 3: Mar 14	Mar 18: W period ends
11	Mar 21 – Mar 25	Spring Break: No Class		
12	Mar 28 – Apr 1	Ch. 7 – Ch 8	Aleks 10: Apr 3 (11:59pm)	
13	Apr 4 – Apr 8	Ch. 8 cont.	Aleks 11: Apr 10 (11:59pm)	Apr 4 and 6: No Class
14	Apr 11 – Apr 15	Chapter 9	Aleks 12: Apr 17 (11:59pm)	
15	Apr 18 – Apr 22	Chapter 10	Exam 4: Apr 18 Aleks 13: Apr 24 (11:59pm)	
16	Apr 25 – Apr 30	Ch. 10 – Ch. 11	Aleks 14: Apr 29 (11:59pm), Final Exam: Apr 30 (10am-12pm)	