

Chemistry 211

Fall 2025

Text: *Chemistry*, 2nd Edition by Flowers, Theopold, Langley, and Robinson and a subscription to *Achieve* online homework by Macmillan. A non-programmable calculator.

Handouts: All available on-line @

<https://mupages.marshall.edu/sites/castellani/michael-castellani/chm-211/>

Lecture notes for all chapters This syllabus and learning objectives

Study suggestions

A set of old tests & answer keys

An old final exam

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Office hours: Monday 2:00 p.m. – 3:50 p.m, Science 408 (my office) or virtually.

I should also be available most Tuesday and Friday mornings and some Thursday mornings from 11:00 to noon.

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. 18 – 22	1 – 2	Oct. 6 – 8	7
25 – 29	2 – 3	13 – 17	7
Sept. 3 – 5	3	20 – 24	7 (Test 3)
8 – 12	4 (Test 1)	Oct. 27 – 31	8
15 – 19	5	Nov. 3 – 7	9
22 – 26	5 – 6	10 – 14	9
Sept. 29 – Oct. 3	6 (Test 2)	Nov. 17 – 21	9 (Test 4)
		Dec. 1 – 5	Review

Dec 11 (Wednesday) 8:00 – 10:00 a.m. Final Exam (Room TBA)

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. (ACT Math with a score of 23 or SAT Mathematics Before Mar. 16 with a score of 540 or SAT MATH SECTION

SCORE with a score of 570 or CHM 111 with a minimum grade of C or Placement Chemistry with a score of 211).

Learning objectives	Objective will be taught through...	Objective will be assessed by...
Become familiar with the atomic structure of matter.	- Lectures - Achieve assignments - Textbook and lecture notes	-Exams -Achieve assignments
Develop analytical skills to solve problems presented in a chemical context.	- Lectures - Achieve assignments - Textbook and lecture notes	-Exams - Achieve assignments
Understand how energy is utilized in natural systems.	- Lectures - Achieve assignments - Textbook and lecture notes	-Exams - Achieve assignments
Describe and predict the basic chemical bonding patterns that explain the physical and chemical properties of matter.	- Lectures - Achieve assignments - Textbook and lecture notes	-Exams - Achieve assignments

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

The dates for tests provided on the first page are only approximate. Tests will be given on Chapters 1 - 3, 4 & 5, and 6 & 7.1-7.3, regardless of the dates listed above. Test 4 will cover and 7.4, 8 & possibly part of 9, and will be held on Friday, Nov. 19. Beginning with the second test, up to 20% of the points may review previous material in this course.

Online homework (9 x 10 points)	90 points
Tests (4 x 100 points)	400 points
Final Exam	<u>200 points</u>
	690 points

The scale for test one is A = 80%-100%, B = 65 – 79.9, C = 50 – 64.9, D = 40 – 49.9. For the three remaining tests the scale is A = 70%-100%, B = 55 – 69.9, C = 40 – 54.9, D = 30 – 39.9. Homework will use the scale A = 90%-100%, B = 80 – 89.9, C = 70 – 79.9, D = 60 – 69.9.

The “A” line will be determined by adding together the 6 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

Due dates for the assignments will be found on the [Achieve](#) 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.

Miscellaneous Topics

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.

University Policies

By enrolling in this course, you agree to the University Policies. Please read the full text of each policy (listed below) by going to [MU Academic Affairs: University Policies](http://www.marshall.edu/academic-affairs/policies/). (URL: <http://www.marshall.edu/academic-affairs/policies/>)

- Academic Dishonesty Policy
- Academic Dismissal Policy
- Academic Forgiveness Policy
- Academic Probation and Suspension Policy
- Affirmative Action Policy
- Dead Week Policy
- D/F Repeat Rule
- Excused Absence Policy for Undergraduates
- Inclement Weather Policy
- Sexual Harassment Policy
- Students with Disabilities (Policies and Procedures)
- University Computing Services Acceptable Use Policy

Campus Carry Policy

University Policy, UPGA-12 (Campus Carry Policy) derives its authority from West Virginia State law, including the Campus Self-defense Act (W. Va. Code § 18B-4-5b). It pertains to the exercise of Concealed Carry on Marshall University's campus, except in designated areas, by individuals with a valid permit to Conceal Carry.

Individuals who choose to Conceal Carry are responsible for knowing and understanding all applicable federal, state, and local laws and Marshall University Board of Governors Rules, University Policies, and Administrative Procedures. University Policy, UPGA-12 applies to areas of campus and buildings that are directly under the possession or control of Marshall University.

Concealed Handguns are not observable to others and must be holstered and concealed on the body of the permit holder or in a personal carrier, such as a backpack, purse, or other bag that remains under the exclusive and uninterrupted control of the permit holder. This includes wearing the personal carrier with a strap, carrying or holding the personal carrier, or setting the personal carrier next to or within your immediate reach at all times. If your participation in class activities impedes your ability to maintain constant control of your Handgun, please make alternate arrangements prior to coming to class.

Marshall University E-Mail Accounts

You must have and use your MU email account. Your personal email accounts will not be used for official communication with Marshall University programs and personnel. You may redirect your MU email to your own personal email account, but you must sign in to your MU account to do that. Marshall University uses Office 365 email. For more information, visit Marshall IT: Office 365 (URL <https://www.marshall.edu/it/office365/>)