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*Office hours:* MW 12:30–1:30 pm, WR 3:30–4:30 pm and by appointment

*Text:* *Chemistry*, 9<sup>th</sup> Edition, Raymond Chang, McGraw-Hill, 2007. ISBN-13: 978-0-07-298060-8. *Required for this course.* (online, visit [www.mhhe.com](http://www.mhhe.com))

*Lectures:* MWF 11:30 am –12:20 pm, Mendel 101

*Recitations:* Section 007: R 11:30 am –12:20 pm, Mendel 101  
Section 008: R 1:00–1:50 pm, Mendel 101  
Section 009: R 2:30–3:20 pm, Mendel 101

*Chapters covered:*

- 24. Organic Chemistry
- 11. Intermolecular Forces and Liquids and Solids
- 12. Physical Properties of Solutions
- 13. Chemical Kinetics
- 14. Chemical Equilibrium
- 15. Acids and Bases
- 16. Acid-Base Equilibria and Solubility Equilibria
- 18. Entropy, Free Energy, and Equilibrium
- 19. Electrochemistry

You must read the textbook. Most of the material will be covered in lecture, but sometimes only briefly. You must read the textbook to get full explanations and example problems for all topics.

*Attendance policy:* Attendance is mandatory for all students.

- Attendance in lectures and recitations is compulsory for freshmen. A student will fail a course (receive a grade of Y) whenever he/she has been absent unexcused once more than double the number of weekly meetings for the course. A student who misses seven class periods for CHM 1156 will receive a failing grade.

*Grading:* Final grades will be assigned according to the following scale:

|  |  |  |
|--|--|--|
| 90–100% A <sup>-</sup> / A                 | 75–89% B <sup>-</sup> / B / B <sup>+</sup> | 60–74% C <sup>-</sup> / C / C <sup>+</sup> |
| 45–59% D <sup>-</sup> / D / D <sup>+</sup> | < 45% F                                    |  |

*Grading:* Your final grade for the course will be calculated two different ways:

|                   |              |                |                    |              |                  |
|-------------------|--------------|----------------|--------------------|--------------|------------------|
| <u>First way:</u> | 3 exams      | 3 x 15% = 45%  | <u>Second way:</u> | 2 exams      | 2 x 15% = 30%    |
|                   | 4 quizzes    | 4 x 7.5% = 30% |                    | 3 quizzes    | 3 x 7.5% = 22.5% |
|                   | 1 final exam | <u>25%</u>     |                    | 1 final exam | <u>47.5%</u>     |
|                   |              | 100%           |                    |              | 100%             |

- If you take all quizzes and exams as scheduled, your lowest quiz and exam will be dropped for the second calculation.
- No make-up exams or quizzes will be given. If you miss a quiz or exam, the second way will be used to calculate your final grade.
- The method that gives you the higher final grade will be used for your final letter grade.

*General Policies:*

1. There will be three in-class 50-minute exams: Exam 1 (Friday, February 6), Exam 2 (Friday, March 13), and Exam 3 (Friday, April 17). No make-up exams will be given (regardless of whether the absence is excused or unexcused). The final exam will be cumulative and will be held during final exam period on Wednesday, May 6 from 10:45 am – 1:15 pm.
2. Quizzes will be held during the first 25 minutes of class on the following days: January 23, February 20, March 27, and April 29. No make-up quizzes will be given (regardless of whether the absence is excused or unexcused). The quiz problems will be similar in difficulty and content to exam problems.
3. Answer keys for quizzes and exams will be distributed electronically, as announced in class.
4. Homework problems and reading assignments will be distributed periodically throughout the course. While homework problems will not be collected and graded, they are intended to reinforce concepts from class so I suggest that you give them your best effort. During recitations, we will go over homework problems and discuss your questions regarding the class material. It is to your advantage to complete homework assignments since you may see these problems again on quizzes and examinations.
5. Please be respectful of your peers: arrive promptly for class and turn off all electronic devices (such as cell phones). Student laptop computers are not needed on a daily basis for this class.
6. Villanova has a formal code of academic integrity, included in the “Blue Book”, the Villanova University Student Handbook. It is the responsibility of every student to be familiar with this code and to adhere to it.
7. It is the policy of Villanova University to make reasonable academic accommodations for qualified individuals with disabilities. If you are a person with a disability, please make arrangements to register with Nancy Mott at the Office of Learning Support Services (610-519-5636, nancy.mott@villanova.edu) as soon as possible. Registration is needed in order to receive accommodations.

*Important dates:* .....

|                                     |            |                    |             |
|-------------------------------------|------------|--------------------|-------------|
| Last day for drop/add:              | January 18 | <i>Quiz 1:</i>     | January 23  |
| Martin Luther King Day (no class):  | January 19 | <i>Exam 1:</i>     | February 6  |
| Semester recess (no class):         | March 2–6  | <i>Quiz 2 :</i>    | February 20 |
| Midterm grades submitted:           | March 11   | <i>Exam 2:</i>     | March 13    |
| Last day for authorized withdrawal: | April 1    | <i>Quiz 3:</i>     | March 27    |
| Easter recess (no class):           | April 9-13 | <i>Exam 3:</i>     | April 17    |
| Friday UG class day                 | April 28   | <i>Quiz 4:</i>     | April 29    |
| Monday UG class day                 | April 29   | <i>Final exam:</i> | May 6       |
| Final day of classes:               | April 30   |                    |             |