CHM 1046 College Chemistry II

Syllabus-Spring 2010 CRN#20493

Instructor Dr. Anthony Mellone email: tmellone@valenciacc.edu
Office Bldg.3/219 phone: (407)582-1438
Office hours: Mon: 8-8:30am, 12:45-2pm (virtual); Tues: 8-10am, 11:15am-1pm; Wed: 8-8:30am, 12:45-2pm (virtual); Thurs: 8-10am; Fri: 3:30-4:30pm (virtual). Other times are available by appointment. Virtual office hours: 407.888.9819
Text *General Chemistry, 9th Edition*, by Darrell Ebbing. Solutions manual and the ChemTutor CD are recommended. We will cover Chapters 11-20. Also required: *Laboratory Manual for Principles of General Chemistry, 8th Ed.* by J.A. Beran, and a scientific calculator.

Grading

7 quizzes (20x7)	140 points	Grade scale	
3 tests (100x3)	300	Score (percent)	Letter grade
Final exam (100)	100	88-100	A
Class exercises	100	77-88	B
11 labs (25x11)	275	65-77	C
11 lab quizzes (5x12)	55	50-65	D
		<50	F
Total	970		

Schedule

Date (Mon)	Test/quiz (Thurs. in class)	Lab (Tuesday in lab)
1. Jan. 11	None	Intro/Safety
2. Jan.18	Quiz 1	Dry Labs 2A, 2B, and 2C (Nomenclature)
3. Jan.25	Quiz 2	Expt. 14 Molar Mass of a Solid
4. Feb. 1	Quiz 3	Expt. 23 Factors Effecting Reaction Rates
5. Feb.8	Test 1	Expt. 24 Rate Law and Activation Energy
6. Feb. 15	Quiz 4	Expt. 37 Common Anions (Read Dry Lab 4, too)
7. Feb. 22	Quiz 5	Expt. 34 An Equilibrium Constant
8. Mar. 1	Quiz 6	Expt. 16 Le Chatelier's Principle; Buffers
9. Mar. 8	None	No lab; spring break
10. Mar. 15	Test 2	Expt. 39 Qual. II. Cations
11. Mar. 22	Quiz 7	Expt 18 Potentiometric Titration
12. Mar. 29	Quiz 8	handout: Molar Solubility, Common Ion Effect
13. Apr. 5	Quiz 9	Expt. 26 Thermodynamics of the Dissolution of Borax
14. Apr. 12	Test 3	Expt. 32 Galvanic cells
15. Apr. 19	None	Review for class final.
16 Apr. 26	Finals week: Class final is Tuesday, April 27, 10:00am. No lab.	

Quizzes, tests, and makeups Nine quizzes will be given. The two lowest quiz grades will be dropped. Also, the lowest lab score and lab quiz score are dropped. No makeup quizzes, tests, or labs will be given. If you miss a quiz or test, your score will be zero. If your final score is higher than your lowest test score, the final score will replace the score for that test. The final exam will

be cumulative over Chemistry I and II. All labs will be preceded by a 5 point quiz. Penalty for late work is 15% per week. If you know you will be absent, it is usually possible to take any quiz or test early. Please notify me as soon as possible.

Attendance/ Withdrawal Attendance is required. If you miss more than 1 week of classes, you may be dropped from the class (and laboratory). If you withdraw before the withdrawal deadline of March 26, you will receive a W. The last day to withdraw from class and receive a W is March 26. If you drop or are dropped from the class after this date, you will receive a WP if you are currently passing the class (>50%) at the time of withdrawal and a WF if you are failing the class. If a student stops coming to class but does not withdraw from class, a grade of F may be assigned at the end of the semester as opposed to an I.

General suggestions: Chemistry involves learning skills. The material is cumulative, and if you get behind, catching up is difficult. Memorization will be held to a minimum. What you learn you will learn by working problems. It cannot be overemphasized: **do the homework**. You must have or develop regular study habits to pass chemistry. Homework will be assigned but not collected or graded. The problems are indicative of the level of performance expected on quizzes and tests. Test and quiz problems will be very much like, if not exactly like homework problems.

Honesty It is cheating to show someone your quiz, test, homework, or lab work so that they may copy the work instead of doing it themselves. The primary penalty for cheating is lower grades due to not learning the material. However, additional penalties, from a score of zero for an assignment to a failing grade in the class, will be assigned, depending on the situation.

Core Competencies

Think. You will analyze data and ideas, employ formulas and procedures, and draw and revise supported conclusions.

Value. You will recognize relevant information and manage work time.

Communicate. You will exchange ideas and information with others.

Act. You will responsibly set goals and reflectively solve problems, individually and in groups

Chapter	end of chapter suggested problems
11	10,13,31,31,39,41,43,45,53,63,65,75,79,105,117,145,147.
12	1,19,25,40,41,43,49,51,53,57,59,61,65,67,73,75,89,93.
13	1,2,4,7,8,9,10,11,15,17,27,29,31,32,33,35,36,39,43,47,53,57,59,61,63,75,77,83,87,89, 91,99,101,115,121.
14	2,4,10,18,19,25,33,39,45,55,57,59,61,63,65,67,81,91,96,105,109,125.
15	1,3,5,10,12,19,21,26,31,33,35,41,47,51,53,67,71,75,77,79,83,99,101,126.
16	6,7,8,10,22,26,29,31,39,40,49,57,59,60,63,69,71,75,77,81,85,87,93,101,105,113,115, 119,121.
17	2,5,16,27,31,33,41,45,53,57,63,65,77,79,83,97,99.
18	6,8,16,17,18,20,23,25,37,41,45,47,49,51,53,63,67,69,85,87
19	4,6,21,22,23,24,25,27,28,39,43,47,55,63,69,71,75,81,85,89,9597,105.
20	3,10,11,16,19,20,21,25,27,33,39,41,57,63,67,69,79,81,93,121.

Students with disabilities who qualify for academic accommodations must provide a letter from the Office for Students With Disabilities (OSD: West Campus, SSB, 103, 407.582.1523) and discuss specific needs with the professor, preferably during the first two weeks of class.