

Lecture hours - Monday/Wednesday/Friday Period 8

Instructor - Prof. Colonel* Charles R. Martin profcrmartin@gmail.com

*Honorable Order of Kentucky Colonels

Instructor's office - 218 Chemistry Laboratory Building (CLB)

Office hours - Wednesdays 1:00 to 2:30 PM

Text - "The Molecular Nature of Matter and Change," Silberberg 6th Ed

Discussion Section - You must co-register for a Tuesday discussion section

Prerequisite - A grade of C or higher in CHM 2041 or 2045 and CHM 2045L

Calculator - You must have your own scientific calculator, but not a graphing calculator or calculator that stores equations/data. You will need your calculator for the quizzes and exams. Calculators will not be provided, and they may not be shared.

Course information - The Colonel stresses that everything in CHM 2046 goes back to six core scientific concepts. Mastering these concepts will not only lead to success in CHM 2046, but will help you understand the world around you and life itself. Statistics show that if you learn chemistry the Colonel's way, you will do better in your upper level science courses. But you must attend all lectures, read the assigned text chapters, and work the homework problems.

Chapters covered and homework problems

Chap 17 - 1,3, 5,7,14,18,23,25,27,29,33,35,41,45,49,53,58,63,65,71,78,84

Chap 18 - 2,5,7,9,13,15,22,23,29,36,37,40,43,49,60,63,67,71,75,82,86,92,98,107,110,117,119,127,134,137

Chap 19 - 2,9,13,19,23,27,31,33,38,42,44,46,52,58,63,68,74,84,86,91,97,99,110

Chap 20 - 2,5,16,22,28,32,33,37,46,48,50,58,60,62,72,78,83,87,89

Chap 21 - 1,3,8,10,12,14,,25,26,29,33,36,38,40,44,48,56,60,64,72,78,87,105,118,125

If we have time at the end of the semester, The Colonel will discuss production and utilization of energy, from the global to local level, and perhaps other practical offshoots of this class.

Important dates

Quiz 1	Tuesday, Sept. 13 - In Discussion Section
Exam 1	Thursday, Sept. 22 - Periods E2 – E3, location TBA
Quiz 2	Tuesday, Oct. 4 - In Discussion Section
Exam 2	Tuesday, Oct. 18 - Periods E2 – E3, location TBA
Quiz 3	Tuesday, Nov. 8 - In Discussion Section
Exam 3	Wednesday, Nov. 16 - Periods E2 – E3, location TBA
Break	Nov. 23 – Nov 27
Last Class	Wednesday, Dec. 7
Final Exam	Monday, Dec. 12 - 3:00 to 5:00 pm, location TBA

Grading - You will be allowed to drop one exam (but not the final exam) and one quiz. Grading will be based on 800 total earnable points as follows:

Exams - 2 best exam scores x 200 points per exam	400 points max	
Quizzes - 2 best quiz scores x 75 points per quiz	150 points max	
Final Exam (cumulative)	<u>250 points max</u>	
Total Maximum Earnable Points		800

Point total & letter grade cutoffs - The grade cutoffs are as follows: (Each number is the lowest point total for the indicated grade.) A = 700 points, A- = 676 points (84.5%), B+ = 652 points, B = 620 points, B- = 596 points (74.5%), C+ = 572 points, C = 540 points, C- = 515 points (64.4%), D+ = 491 points, D = 460 points.

Missed exam or quiz -Because you will be allowed to drop one exam and one quiz, no makeups will be offered. However, if you have a sanctioned absence - religious observance, sanctioned sporting event, other UF exam for course with higher course number - you will be allowed to take the exam or quiz before, not after, the rest of the class. You must inform your TA and the Colonel at least two weeks in advance of a sanctioned absence.

Disputed grades - You have 48 hours after posting to dispute the score of a quiz, exam, or the final exam. After that, all scores are final.

Getting help -In addition to your instructor's office hours, your discussion section TA will have office hours. Help is also available on a regular basis on the east side of the Chemistry Learning Center (CLC), which is in Flint Hall 257-258.

Policy on cheating -The only information that you can use on a quiz or exam is that information which is in your memory on that day. Bringing information into the exam in any other form - for example, a written "cheat sheet," information programmed into your calculator, information sent to you via cell phone, text, etc., etc. – is cheating. Furthermore, simply having such illicit information in the test room is cheating. In addition, copying from a neighbor's test is cheating. Finally, since there are many creative ways to cheat, I simply cannot define all of them in advance here. So the bottom line is – the instructor will define what is cheating, and any student caught cheating in any way will receive a score of zero on that quiz or exam. If a student receives a zero for cheating, that grade will not be eligible for dropping.

Area	Institutional Definition	Institutional SLO
CONTENT	Content is knowledge of the concepts, principles, terminology and methodologies used within the discipline.	Students demonstrate competence in the terminology, concepts, methodologies and theories used within the discipline.
COMMUNICATION	Communication is the development and expression of ideas in written and oral forms.	Students communicate knowledge, ideas, and reasoning clearly and effectively in written or oral forms appropriate to the discipline.
CRITICAL THINKING	Critical thinking is characterized by the comprehensive analysis of issues, ideas, and evidence before accepting or formulating an opinion or conclusion.	Students analyze information carefully and logically from multiple perspectives, using discipline specific methods, and develop reasoned solutions to problems.