Syllabus  
CHM 2045C.C001 # 52044  
Chemistry Fundamentals I  

Summer C 2015  9:00 – 9:50 AM, M,T,W,R  PSY 108  
Three discussion sessions, 50 min each, 9:00 – 11:50 AM, Friday, BA2-207  

Instructor:  Dr. Pedro Patino  
Office:  CH 107A  
Office Hours:  10:15 - 11:15 AM  
R:  8:00 – 8:45 AM  

ISBN: 1269397168; loose-leaf format. Hard cover and eBook formats are also available.  
You may use the second edition too. I will not use Mastering Chemistry but you may need it for  
CHM 2046, Chemistry Fundamentals II.  

Booklets: (recommended)  
Pedro Patino, Chemistry Fundamentals IA, Kendall/Hunt Publishing Co. Second edition,  

Course goal: To provide you with an understanding of the basic chemical theory of atomic structure,  
periodicity, stoichiometry, chemical reactivity, energy in chemical reactions, atomic structure, chemical  
bonding, gases and their properties, and introduction to organic chemistry.  

Topics to be covered: The topics to be covered in this course will include, but not be restricted to, the  
scientific method, measurement, classification of matter, atomic structure, the Periodic Table, molecules,  
ions and their compounds, stoichiometry, solution chemistry, electrolytes, precipitation reactions, redox  
reactions, acids and bases, titration, energy and chemical reactions, calorimetry and Hess’ Law, atomic  
structure, the chemical periodicity, bonding and molecular structure, VSEPR theory, polarity, Valence Bond  
Theory, Molecular Orbital theory, gases and their properties, and chemistry of carbon.  

This course has Supplemental Instruction (SI). There will be four sessions, 50 minutes each, every week.  
Syllabus, schedule of classes, and SI information of this course will be in Webcourses @ MyUCF.  

TESTS  
A student ID will be required for each test. Only non-programmable (non-graphing) scientific calculators  
will be allowed. Any use of electronic device (iPod, cell phone, tablet, laptop...) during classes and  
exams is strictly prohibited. Any use of such device will be considered an attempt to cheat on the exam and  
will result in a 0 on the grade. I may request you to leave the classroom if using them during lectures.  

There will be four tests, a final exam, and seven quizzes. All exams are cumulative, but stress will be put in  
the last (new) chapters covered in class after previous test. If you are absent for a test, the percentage score  
from your final test will be substituted for the missed test. The percentage grade from your final test will  
replace the lowest test score, if it is higher and a test was not missed. The lowest-grade two quizzes out of  
seven will be dropped toward your final grade.  
Each test (T) will last 50 minutes and will each be worth 100 points. It will be given either during class time  
or during discussion sessions. Each quiz (Q) will be worth 25 points. It will be given during the discussions,  
on Fridays. There will be no make-up test!  

Fri May 22 (Q1); Fri May 29 (Q2); Fri Jun 5 (T1); Fri Jun 12 (Q3); Fri Jun 19 (T2); Fri Jun 26 (Q4);  
Thu Jul 2 (T3); Fri Jul 10 (Q5); Fri Jul 17 (Q6); Fri Jul 24 (T4); Fr 7/31 (Q7), Thu Aug 6 (Final).