

**Science Department**  
**CHM 1045C – 16108 & 16109 General Chemistry I**  
**TR 2:30-3:45 Fall 2011**

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Course Description:

Prerequisite: CHM 1025C or one year of high school chemistry with a minimum grade of C; and MAC 1102 or MAC 1105 or two years of high school algebra or an appropriate score on an approved mathematics assessment. (4 Cr)

A study of the basic principles of chemistry including chemical reactivity, atomic structure, chemical bonding, molecular geometry, periodicity, stoichiometry, and kinetic-molecular treatment of gases. Laboratory illustrates principles discussed in classroom.

Text and Materials: You should bring these materials to each lecture.  
Text: General Chemistry, 9<sup>th</sup> Edition, Ebbing and Gammon  
Scientific Calculator  
Lecture Notebook (loose leaf type, 2-3" inch)  
A black pen, two pencils and an eraser

Evaluation Process:

Hour Exams (3)	45%	A = 90-100%
Pop-Quizzes	10%	B = 80-89%
Final Exam	15%	C = 70-79%
Laboratories	25%	D = 60-69%
Homework	5%	F = 0-59%

Attendance: Regular attendance and class participation are the most important factors that promote success in college. It is wisest to attend class and be prepared for each scheduled lecture. Read each chapter before its scheduled lecture, then come to class with appropriate questions.

Cheating: I have zero tolerance for cheating. If you are caught cheating on any assignment, quiz, or exam you will be failed from the course.

**There will be NO make-up quizzes, exams, or late homework under any circumstances.**

Important Dates:

Withdrawal deadline to receive a "W" November 4, 2011  
Final Exam Thursday December 15, 2010 1:00-3:30 p.m.

**Tentative Schedule:**

Date	Activity	Due	Homework
8/30	CH 1: Measurement		
9/1	CH 1: Measurement		
9/6	CH 2: Atoms, Molecules, and Ions		
9/8	CH 2: Atoms, Molecules, and Ions	CH 1	25,37,39,41,43,47,51,53,55,57,59,61,65,67,69,73,77,79,133,135
9/13	CH 3: Calculations		
9/15	CH 3: Calculations	CH 2	37,39,43,45,51,53,57,59,61,65,69,71,75,77,79,81,83,85,87,89,91,95,97
9/20	Review CH 1-3		
9/22	<b>Exam CH 1-3</b>	CH 3	27,29,31,33,35,37,39,41,45,49,57,61,79,81,83,85,87,91,93,95,97
9/27	CH 4: Reactions		
9/29	CH 4: Reactions		
10/4	CH 5: Gases	CH 4	29,31,33,35,37,39,41,43,55,57,59,61,65,67,69,71,75,79
10/6	<b>NO CLASS</b>		
10/11	CH 5: Gases		
10/13	CH 6: Thermochemistry	CH 5	39, 41, 47, 51, 57, 59, 63, 81, 85, 101
10/18	CH 6: Thermochemistry		
10/20	Review CH 4-6		
10/25	<b>Exam CH 4-6</b>	CH 6	31,43,47,49,51,59,61,71,73,79,81,83
10/27	CH 7: Quantum Atom		
11/1	CH 7: Quantum Atom		
11/3	CH 8: Electron Config.	CH 7	63,65,67,68,69,87,89
11/8	CH 8: Electron Config.		
11/10	CH 9: Bonding	CH 8	69,71,55,57,59,61,63,65,67,73,81,83
11/15	CH 9: Bonding		
11/17	CH 9 & 10		
11/22	CH 10: Geometry	CH 9	35,37,39,41,45,47,51,55,57,59,61,65,71,73,75,77
11/24	<b>NO CLASS</b>		<b>Happy Thanksgiving</b>
11/29	CH 10: Geometry		
12/1	Review CH 7-10		
12/6	<b>Exam CH 7-10</b>	CH 10	33,35,37,39,41,43,45,47,49,53,54,65,67,71
12/8	Review for Final Exam		
12/15	<b>FINAL EXAM</b>		

Disclaimer Statement: This outline may be altered, at the instructor's discretion, during the course of the term. It is the responsibility of the student to make any adjustments as announced.

Final Exam Policy: The final examination in this course is MANDATORY. Any student not completing the exam will receive a grade of F for the course.

Withdrawal Policy: Per Valencia Policy 4-07 (Academic Progress, Course Attendance and Grades, and Withdrawals), a student who withdraws from class before the established deadline for a particular term will receive a grade of “W.” A student is not permitted to withdraw after the withdrawal deadline. A faculty member MAY withdraw a student up to the beginning of the final exam period for violation of the class attendance policy. A student who is withdrawn by faculty for violation of the class attendance policy will receive a grade of “W.” Any student who withdraws or is withdrawn from a class during a third or subsequent attempt in the same course will be assigned a grade of “F.”

Students with Disabilities: Students with disabilities who qualify for academic accommodations must provide a letter from the Office of Students with Disabilities (OSD) and discuss specific needs with the instructor, preferably during the first two weeks of class. The Office for Students with Disabilities determines accommodations based on appropriate documentation of disabilities.

Academic Honesty: Plagiarism is defined as claiming as your own a paper, report, article, or speech which in whole or in part was prepared by someone other than yourself. Cheating on an exam or copying someone else’s laboratory report is also a violation of this policy. A violation of this policy can result in failure of an assignment, the entire course, or your current status as an active student. Each student is expected to be informed and compliant with the college policy on academic honesty as stated in the Student Handbook.

Expected Student Conduct: Valencia Community College is dedicated not only to the advancement of knowledge and learning but is concerned with the development of responsible personal and social conduct. By enrolling at Valencia Community College, a student assumes the responsibility for becoming familiar with and abiding the general rules of conduct. The primary responsibility for managing the classroom environment rests with the faculty. Students who engage in any prohibited or unlawful acts that result in disruption of a class may be directed by the faculty to leave the class. Violation of any classroom or Valencia’s rules may lead to disciplinary action up to and including expulsion from Valencia. Disciplinary action could include being withdrawn from class, disciplinary warning, probation, suspension, expulsion, or other appropriate and authorized actions. You will find the Student Code of Conduct in the current Valencia Student Handbook.

Valencia Student Core Competencies: Valencia faculty have defined four interrelated competencies (Think, Value, Communicate, ACT) that prepare students to succeed in the world community. These competencies are outlined in the college catalog. In this course, through lecture and discussion, group work, and other learning activities, you will further develop your mastery of those competencies.

Computer/Equipment Use Policy: Use of computers in the Business, IT, and Public Service classrooms at Valencia Community College is restricted to those activities designated by the instructor to enhance the class materials. Any other use is strictly forbidden. Inappropriate use includes, but is not limited to:

Use of computer to send Email or access Internet sites not specifically assigned in class.

Use of computer for job, internship, or other activities not assigned in class.

Modifying any hardware or software system configuration or setting.

Activities not in accordance with the Valencia Student Code of Conduct.

Use of computers in the departmental open lab is limited to those activities involved with preparing homework or coursework in this department and is subject to the same restriction as listed above.

Computer use is remotely monitored; any student using computers inappropriately may be subject to dismissal from class or banishment from the lab. Subsequent offense may be sent to the campus administration for further disciplinary action.

**CHM 1045L, General Chemistry I Lab**  
**T & R 10-12:45 pm Fall 2011**

Text and Materials: Laboratory Manual for Principles of General Chemistry, 8<sup>th</sup>  
Edition, Beran  
Scientific Calculator

Attendance Policy: There will be NO make-up laboratories. Be punctual, as there will be a pre-lab discussion. I will lock the lab door five minutes after lab has started, if you are late I will not let you in and you will receive a zero for the lab. If you miss 3 or more labs you will automatically fail the course.

Grading Policy:

Laboratories 20%

Presentation 5%

Course Assignments:

**Pre-lab Assignments:** will be checked when you get to lab. If you don't have it completed you will not be able to do lab and will receive a zero for the lab.

**Lab Reports and Post Labs:** Completed lab reports should be turned in at the next lab meeting. Note: you get one week to finish labs

Order of papers to turn in: Report sheet, Laboratory questions, Pre-lab assignment

**Student Presentations:** Each set of lab partners will do a ten-minute presentation in week of 11/8 or 11/15.

Tentative Schedule:

<b>Week of</b>	<b>Activity</b>
8/30	<b>NO LAB</b>
9/6	Safety and Exp #1: Basic Laboratory Operations
9/13	Dry Lab: Nomenclature
9/20	Dry Lab: Calculations <b>Deadline for Presentation Topic</b>
9/27	Exp #5: Percent Water in a Hydrated Salt
10/4	<b>NO LAB</b>
10/11	Exp #2: Identification of a Compound
10/18	Exp #7: Empirical Formulas
10/25	Exp #8: Limiting Reactant
11/1	Recovery of Copper
11/8	Presentations
11/15	Presentations
11/22	<b>NO LAB Happy Thanksgiving</b>
11/29	Dry Lab: Atomic and Molecular Structure
12/6	<b>TBA</b>