

Science Department
CHM 1046C – 26143 & 26144, General Chemistry II
TR 2:30-3:45 Spring 2012

Instructor's Name: Mrs. Renee Y. Becker
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Course Description: Prerequisite: CHM 1045C with C or better. Continuation of CHM 1045C dealing mainly with equilibrium theory, thermodynamics, chemical kinetics and electrochemistry. Laboratory illustrates principles of ionic equilibria within framework of qualitative analysis. (4 Cr)

Text and Materials: You should bring these materials to each lecture.
Text: General Chemistry, 9th 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" March 23, 2012
Final Exam Thursday April 26, 2012 1:00-3:30 p.m.

Tentative Schedule:

Date	Activity	Due	Homework
1/10	Review		
1/12	CH 11: Liquids & Solids		
1/17	CH 11: Liquids & Solids		
1/19	CH 12: Solutions	CH 11	37, 53, 55, 59, 61, 63, 64, 65, 67, 69, 71, 72
1/24	CH 12: Solutions		
1/26	CH 13: Kinetics	CH 12	37, 38, 39, 41, 43, 45, 49, 53, 55, 57, 61, 67, 69, 73, 77, 79
1/31	CH 13: Kinetics		
2/2	CH 13: Kinetics		
2/7	Review Exam I (CH 11-13)		
2/9	Exam I (CH 11-13)	CH 13	Handout HW
2/14	CH 14: Equilibrium		
2/16	CH 14: Equilibrium		
2/21	CH 15: Acids & Bases	CH 14	35, 36, 37, 41, 43, 49, 50, 51, 55, 57, 58, 75, 77, 81, 83, 87, 89, 91, 97
2/23	CH 15: Acids & Bases		
2/28	CH 16: Acid-base Eq.	CH 15	29, 31, 33, 35, 37, 41, 43, 45, 47, 49, 51, 53, 54, 55, 57, 59, 61, 63, 65, 67, 71, 75, 77
3/1	CH 16: Acid-base Eq.		
3/6	NO CLASS– Spring Break		
3/8	NO CLASS – Spring Break		
3/13	Review Exam 2 (CH 14-16)		
3/15	Exam II (CH 14-16)	CH 16	33, 35, 39, 43, 49, 51, 53, 85, 87, 89
3/20	CH 17: Sol. & Complex Ion		
3/22	CH 18: Thermodynamics		
3/27	CH 18: Thermodynamics	CH 17	25, 27, 29, 31, 45, 49
2/29	CH 19: Electrochemistry		
4/3	CH 19: Electrochemistry	CH 18	39, 40, 41, 42, 43, 45, 51, 52, 53, 61
4/5	Organic Chemistry Preview		
4/10	Organic Chemistry Preview	CH 19	35, 37, 39, 43, 45, 47, 49, 53, 55, 73, 75, 77, 79, 87
4/12	Review Exam 3 (CH 17-19) & Organic		
4/17	Exam III (CH 17-19) & Organic	Organic	Handout from me
4/19	Review for Final Exam		

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.

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.

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.”

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 1046L, General Chemistry II Lab
T & R 10-12:45 pm Spring 2012

Text and Materials:

Beran's Laboratory Manual for Principles of General Chemistry, 8th
Scientific Calculator
A black pen

Attendance Policy: There will be NO make-up laboratories. Be punctual, as there will be a pre-lab discussion. If you are 15 or more minutes late you will not be able to participate in lab and will receive a grade of zero. **If you miss 3 or more labs you will automatically fail the course (even with documented excuse).**

Grading Policy:

Laboratories 20%

Presentation 5%

Course Assignments:

Pre-Lab Assignments: The pre-lab questions must be completed and signed by me when you arrive to lab. If the pre-lab is not complete you will be asked to leave and will receive a grade of zero for that 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: Pre-lab Questions, Report sheet/data sheets/graphs, Post-Lab questions

Student Presentations: Each set of lab partners will do a ten-minute presentation in the week of 4/2 or 4/9. The topics will be your choice.

Tentative Schedule:

Week of	Activity
1/9	NO LAB
1/16	NO LAB
1/23	Safety & Molar Mass of a Solid
1/30	Factors Affecting Reaction Rates
2/6	NO LAB
2/13	Determination of a Rate Law
2/20	Le Chatlier's Principle
2/27	An Equilibrium Constant
3/5	NO LAB Spring Break!!!
3/12	Potentiometric Analysis
3/19	Molar Solubility, Common-Ion Effect
3/26	NO LAB
4/2	Presentations
4/9	Presentations
4/16	NO LAB