

CHM 2046 General Chemistry with Qualitative Analysis II

Summer 20093

CHM 2046C is a continuation of General Chemistry I. This course stresses chemical equilibrium, kinetics, acids-bases, electrochemistry, and thermochemistry. Laboratory work includes ionic equilibrium and semi-micro qualitative analysis. Prerequisite: Grade of "C" or better in CHM 2045C.

Meeting Times:

Section 304057 Lecture MW 9:00-11:30 and TR 9:00-10:05 in C-202,
Lab TR 10:15-1:15 in C-213

Instructor: Karen Sanchez **e-mail:** ksanchez@fccj.org

Office: C-120 **Phone:** 646-2051 **FAX:** 646-2295

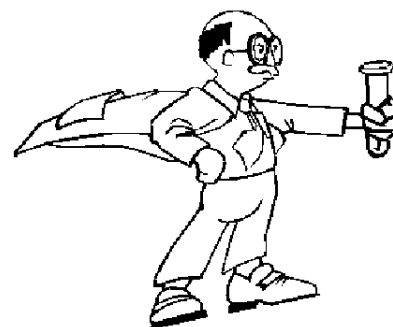
Web Page: <http://web.fccj.org/~ksanchez>

Office M 8:00-8:50 AM, 11:30- 1 PM

Hours: T 8:00-8:50 AM, 1:10-1:30 PM

W 8:00-8:50 AM, 11:30-1 PM

Z 8:00-8:50 AM, 1:10-1:30 PM



Course Evaluation:

4 Exams: 80% (no make-ups given; required 4th exam can be used to replace exams 1-3 for students who missed no more than 4 hours of class)

Labs: 20% (lowest lab grade will be dropped)

Lab reports are due every Tuesday at 9 am. A late penalty is assessed at 10% per day. No reports will be accepted after the graded labs are returned to the class.

Students with 3 zeros for lab reports (including the dropped lab) will have their overall grade reduced by 10%. Students with 4 or more absences in lab (or zeros for lab reports) will receive an FN in the course (Failure for Non-Attendance).

Grade Scale: 90+ A, 80-89 B, 70-79 C, 60-69 D, < 60 F

No I (Incomplete) grades will be assigned.

Optional Extra Credit:

- Earn 2 points per chapter by turning in completed homework at the start of each test. All work must be shown on each problem. No work = no credit. Students should plan to check completed homework against the answer key which is available during my office hours. Homework should be in order and neat, although scratch outs, erasures and white out are fine!!!! It is to be real homework!

Required: Brady & Senese, Chemistry: Matter and Its Changes, 5th ed.

2046 General Chemistry Lecture Notes and Lab Manual, Sanchez

Student Lab Notebook, Hayden McNeil

Safety glasses, lab notebook, black ballpoint pen and glass marking pen (Sharpie Brand) for the laboratory.

Calculator: This course will emphasize the use of a graphing calculator. Students should bring a TI-83 or a TI-84 calculator to class and lab.

Learning Aids: The South Campus Learning Assistance Center (LAC; G-200) has student tutors, computer programs and films available to assist students. The Kent campus LAC has a full-time chemistry tutor.

To Be Successful in This Class you will need to work steadily on the lessons; to contribute actively to on-line discussions; to practice active reading by striving to understand the material, identifying the parts of the text that are unclear, and writing questions about these passages and sending those questions to the instructor for clarification; to do all of the homework assignments after having studied the lessons and the text; and to seek help during office hours when necessary. It is reasonable to assume that you will need to **study chemistry 20+ hours each week** to achieve mastery of the material.

Study Groups Students are **STRONGLY** encouraged to establish study groups that meet regularly to discuss homework and labs and to prepare for exams.

Beepers and Telephones should be off during lecture and lab. Grade penalties will be given for failure to provide this courtesy to your classmates and instructor.

Attendance Good attendance is important for success in this course. You should plan to arrive on time and stay the entire class period. If you are absent from class you should get any missed material from a fellow classmate. If you have missed more than 15% of the scheduled class time (6 hours) and you fail the course, you will receive an FN (Failure for non-attendance) grade. This grade may affect your financial aid.

Academic Dishonesty will not be tolerated. Students found to be cheating will be expelled from the class and expulsion from FCCJ will be pursued. Cheating includes (but is not limited to) programming test information into calculators, using cheat sheets on exams, changing lab data, misrepresenting someone else's work as your own or allowing someone to copy your work.

Tentative Course Outline

Dates	Chapter	Exams	Lab Schedule
6/29-7/2	15		6/30 Safety; Problem solving and lecture
7/2-7/8	16		7/2 Kinetics
7/9-14	17		7/7 Equilibrium (part I)
7/13	Mon	Exam 1 (15-16)	7/9 Equilibrium (part II)
			7/14 Lecture chapter 18
7/14-21	18		7/16 pH
7/22	Wed	Exam 2 (15-18)	7/21 Buffers/ Titration Curves
			7/23 Determining K _{sp} of Calcium Hydroxide
7/23-28	19		7/28 Freezing Point Depression
7/29-30	14		7/30 Qualitative Analysis Group I
8/3	Mon	Exam 3 (18,19,14)	8/4 Qualitative Analysis Group II
			8/6 Qualitative Analysis Group III
8/4-10	20		8/11 Thermochemistry
8/11-13	21		8/13 Review
8/17	Mon	Exam 4 (15-21)	

Other Important Dates

7/8 Drop and Level Change Deadline (Refund)

8/6 Withdrawal Deadline