

Summer 2009

CHM 1025C

Hybrid!

Introduction to General Chemistry

This course is an introduction to the concepts of inorganic chemistry including structures of matter, atomic theory, nomenclature, bonding, gases, solutions, equilibrium, and acids and bases. This course is for students who have had no previous chemistry and plan to major in science, engineering, pre-medicine or pharmacy. Co-requisite: MAC 1105 or satisfactory score on placement test.

How is taking a hybrid chemistry class different from a traditional lecture class? Lectures are in the form of interactive web pages that include videos, simulations and many worked out examples and problems. Interaction with the instructor and other students will take place in an asynchronous discussion forum where students will post questions (and answers!) several times a week. The class will meet each week for a problem solving session where students will hone their skills and understanding of the lecture materials. .

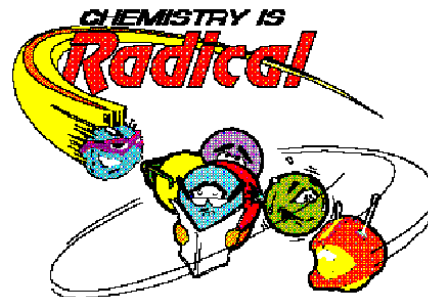
Instructor: Mrs. Karen Sanchez

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

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

e-Mail: ksanchez@fccj.org **FAX:** 646-2295

Office M 8:20-8:50 AM, 11:30-12:50, 3:10-4:00 PM
Hours: T 8:20-8:50 AM, 1:10-3:30 PM
 W 8:20-8:50 AM, 11:30-12:50 PM, 3:10-4:00 PM
 Z 8:20-8:50 AM, 1:10-1:40 PM



Section 304055: Lecture Online

Problem Solving Session Monday 1:00 – 3:00 C-202 (South Campus)

Lab Wednesday 1:00 – 3:00 C-206 (South Campus)

Best Method to Contact Instructor and Usual Response Time: You may contact me by phone, e-mail and/or in person. Leave a message on voice mail if I am unavailable at time of call. Include phone number(s) where, and times when, you can be reached. If sending an e-mail, the subject line should contain the course number (CHM 1025C) and the topic of your e-mail. I will respond to all voice mail or e-mail within 24 hours Monday - Thursday or by Monday for messages received after hours on Thursday or during the weekend. Any exceptions will be posted in the Announcements section of the course. You are welcome to come to my office for help during the office hours listed above.

Required: Corwin/ Introductory Chemistry, 5th Edn.

Student Lab Notebook, Hayden McNeil

Sanchez Lecture Notes and Lab Manual

Calculator that has log, 10^x and y^x function keys

Safety glasses, black ball point pen and glass marking pen (Sharpie Brand) for lab.

The Learning Assistance Center (LAC; G-200) has chemistry tutors, computer programs and films available to assist students. Video tapes on equilibrium, writing formulas and naming inorganic compounds, pH calculations and Lewis structures and geometry are on the 2nd floor of the LAC. The hours are:

- Monday – Thursday: 7:30am – 9pm
- Friday: 7:30am – 3:00pm
- Saturday: 9:00am – 3:00pm
- Sunday: 1:00pm – 5:00pm

To be successful in this class you need to study the text and lecture notes regularly and to do all of the homework assignments; to contribute actively to the online discussions, to study for and to take the quizzes in a timely fashion, 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 to seek help during office hours when necessary. (J. Chem. Ed. 1996, 73, p.443) If this was taught traditionally, you would be meeting in a lecture room for 4 hours a week for lecture. This means that at a minimum, you should be prepared to study 12-14 hours on chemistry each week. The lab component will take an additional 2 hours outside of lab each week.

Policies

Course Evaluation:

5 Exams: 70% (Exam 5 is comprehensive and will be used to replace lowest exam grade for any student with 3 or fewer absences. No make up exams will be given.)

Labs: 15% (Drop the lowest lab grade; no lab make-ups are possible.)

Participation: 15% (1/4 each: quiz average, homework, active posting in forum, group activities)

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

No I (incomplete) grades will be assigned.

Students with 3 or more lab absences or zeros for lab reports will have their overall grade reduced by 10%. Students with 4 or more lab absences or zeros for lab reports will receive an F in the course.

Standards of Progress

Students that have not completed at least 2 on-line quizzes, posted at least 2 messages in the discussion room and attended at least 1 lab by May 12 will be dropped from the course. The FN grade (Failure for Non-attendance) will be given to students that have missed more than 20% of the scheduled labs (3 class meetings) and have a failing course average. It will also be given to students that have a 50% or lower Participation grade and a failing course average. This grade may affect your financial aid.

Participation (15% of your grade – the equivalent of one exam!)

1. **Discussion Room** is on the Blackboard site (<http://bb.fccj.edu/>). Each week, students will be expected to actively participate in their group discussion board, discussing homework, lab, quiz and exam questions. Students should plan to log on to their group

discussion board at least 3 times during the week, and post each of those times. At a minimum, students are expected to post at least 2 original questions or comments and constructively respond to 2 other questions or comments each week. The posts for each week should be completed by Sunday night.

2. **Online Assignments** All assignments are given for each chapter under the Course Content for each chapter. The assignments include a list of learning objectives, readings and web activities, a graded quiz, and a homework assignment from the textbook. All must be completed prior to the exam. Notes must be taken on all on-line tutorials to receive credit for completion. Notes should include the attempts at working out examples given in the tutorials.
3. **Online Graded Quizzes** are assigned for each chapter and are found on the Blackboard site (<http://bb.fccj.edu/>). Each graded quiz must be completed by the due date. You have three attempts at each quiz and the highest grade will be recorded. The lowest quiz grade will be dropped before the participation grade is averaged. There are optional practice quizzes on ChemCentral (<http://chem.prenhall.com/corwin/>) for every chapter. You can use these quizzes to prepare yourself for the graded quizzes on Blackboard.
4. **Homework** will be collected each week. Work must be shown for credit to be given. Word problems are to be worked using dimensional analysis, a technique first introduced in chapter 2 and used all semester. Notes must be taken on all on-line tutorials to receive credit for completion. Notes should include the attempts at working out examples given in the tutorials. The due dates for the homework and notes are on the last page of the syllabus.
5. **Late assignments Policy:** I know Life Happens! You may request an extension to any homework or quiz deadline **once** during the term. You will have one additional week to complete and those assignments.
6. **Group problem solving sessions** Each week you will work in a group on a graded set of problems and discussion questions. The problem solving sessions are designed to help you understand and apply what you have been learning. You must be present and actively contribute to the assignments to earn problem solving session participation points.

Netiquette (internet etiquette)

Please follow the following general rules when posting in the discussion forum and when e-mailing each other and me.

1. Do not use offensive language or post insulting or abusive messages.
2. Do not use all capital letters unless you intend for us to “hear” you SHOUTING!
3. Be forgiving of other's mistakes. We all make them, and your colleagues are beginners, just like you. I will post any corrections needed if someone makes a chemistry mistake.
4. Be respectful of other's opinions posted—mine and the other students.

5. Always complete the subject heading of your e-mail. I never open e-mails that don't have the subject identified.

Academic Dishonesty Students found cheating on exams, quizzes, homework or labs will receive an F in the course and procedures for expulsion from the college will be followed. Cheating includes (among other things) copying another individual's work (or allowing someone to copy your work), using cheat sheets (or programmed information) exam, or misrepresenting someone else's work as your own.

Warning: If first two attempts at credit course unsuccessful (audit,IW,AW, W,NP count as attempts), you will be charged out-of-state tuition (four times the cost of regular tuition) for third attempt. Drops during first week do not count as attempts. (Florida House Bill 1545)

Beepers and Telephones should be off or on vibrate on in lab. Grade penalties will be given for failure to provide this courtesy to your classmates and instructor.

Learn the Names and Symbols of the Elements

Atomic numbers 1-38 for the first exam and 1-38, 47-56, 78-83, 86, 92 for the second exam. Spelling counts! Use an upper case letter for the first letter of an element's symbol and lower case for the second letter of the symbol. For example, cobalt is Co not CO.

Lab

The lab notebook should contain all calculations, observations and measurements recorded with a black ballpoint pen. Each entry should be labeled in a meaningful manner that indicates the part of the experiment that corresponds to the entry. The student will then refer to the notebook when preparing the lab reports. Because a lab notebook is a working document, it will most likely contain errors. Errors should have a single line drawn through them. There should be no erasures or white out used in the lab notebook.

Before Each Lab:

Write the title of the experiment and the lab date at the top of a new page.

Label the page Pre-Lab Exercise. Record the following under that heading:

- The purpose of the experiment and the date
- Write out any questions you have about the lab that you need answered before starting the lab.
- Answers to Pre Lab exercises found in the lab itself.
- Create a data table for recording data using the model in the handout. This is what is meant by "Prepare your lab notebook to receive data."

Update the Table of Contents

Failure to complete the pre-lab assignments will result in a reduction in the lab grade.

After Each Lab:

Turn in copy portion of lab notes before leaving lab. Turn in lab report one week later.

CHM 1025C Hybrid Summer 2009 (Section 304055) Quiz & Homework Deadlines, Exam & Lab Schedule

| Chapter | Quiz/ Exam | Homework Collected | Problem Solving Sessions And Exams | Lab Sessions |
|--------------------|---|-----------------------|--|--|
| Orientation | Mark Reviewed by T 5/5 | | | |
| 1 | T 5/5 | W 5/6 | M 5/4 Orientation and Intro to chapter 2 | W 5/6 Safety and Measurements |
| 2 | M 5/11 | M 5/11 | M 5/11 CH 2 | W 5 /13 Measurement |
| 3 | M 5/18 | M 5/18 | M 5/18 CH 3 | W 5/20 Density |
| 4 | M 5/25 | M 5/25 | | |
| 1-4 | Tuesday or Wednesday 5/26 or 5/27 Exam 1 taken in Assessment Center, U-120. Must be completed by 6 PM W. No. 2 pencil and picture Id needed. | | | |
| 5 | M 6/1 | M 6/1 | M 6/1 CH 5-6 | W 5/27 CH 5 Atomic Spectra (Found in BB. Print before lab) |
| 6 | M 6/8 | M 6/8 | M 6/8 CH 7 | W 6/3 Formula Writing |
| 7 | Sunday 6/14 2 quizzes | M 6/15 | | W 6/10 Naming Game |
| 5-7 | Monday during problem solving session 6/15 Exam 2 | | | |
| 8 | W 6/24 | W 6/24 | M 6/22 CH 8 | W 6/17 Double Replacement Reactions |
| 9 | M 6/29 | M 6/29 | M 6/29 CH 9 | W 6/24 Problem Solving |
| 10 | M7/6 | M7/6 | M 7/6 CH 10 | W 7/1 Stoichiometry |
| 7-10 | Wednesday during lab period 7/8 Exam 3 | | | |
| 11 | W 7/15 | W 7/15 | M 7/13 CH 11 | W 7/15 Gas Laws |
| 12 | Sun 7/26 | M 7/27 | M 7/20 CH 12 | W7/22 Models Lab |
| 10-12 | Monday 7/27 during problem solving session Exam 4 | | | |
| | | | | W 7/29 Solutions Lab |
| 14 | M 8/3 | M 8/3 | M8/3 CH 14 | W8/5 Acids and Bases Lab |
| 15 | M 8/10 | M 8/10 | M 8/10 CH 15 | W 8/12 Review for exam |
| 7-12, 14-15 | Final Exam 100 Points chapters 7-12; 100 points 14-15 Monday 8/17 1-3PM | | | |

Other Important Dates

- 5/11 Drop deadline
- 5/25 Memorial Day (College Closed)
- 7/16 Withdrawal Deadline
- 7/4 Independence Day (College Closed)