

CHM 1045C-Lecture Part
Sections 31-36
Dr. Dudley

General Chemistry I
Syllabus-Lecture Part

Spring 2005
1:25-2:15 MWF
255 FLH

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Office Hours: 3:30-5:00 Thurs
2:00-3:30 Fri (or by appointment)
Textbook: *Chemistry: The Molecular Nature of Matter and Change*
Silberberg, 3rd. Edition, McGraw Hill

Thursday Recitation Schedule:

Section	Time	Room	Recitation Instructor	Course Ref. Number
31	8:00-8:50 am	219 HTL	Trueblood	06089
32	9:00-9:50 am	219 HTL	Trueblood	06090
33	10:00-10:50 am	219 HTL	Trueblood	06091
34	12:30-1:20 pm	219 HTL	Pasquier	06092
35	1:30-2:20 pm	219 HTL	Pasquier	06093
36	2:30-3:20 pm	219 HTL	Pasquier	06094

Note which section you are enrolled in and attend the appropriate lecture and recitation for that section. **If you must switch to a different time, be sure to go through drop and add so that you will be enrolled correctly.**

Prerequisite:

MAC 1105 with a grade of "C-" or higher, or MAC 1105 "waived" based on the student's score on the Advanced Math Placement (AMP) exam, the SAT, or the ACT.

Laboratory Part:

The laboratory part of this combined lecture/lab course is required and is independently coordinated by Dr. Stephanie Dillon. The lab runs simultaneously with the lecture and the topics covered in the lecture are synchronized with the lab material. **If you do not attend the first lecture AND the first lab meeting, you will be dropped from the course!**

Students missing more than 3 laboratories for any reason (excused or unexcused) will receive an incomplete for the lab portion of the class and must retake the entire lab in order to receive a grade for the 1045C course.

Calculator:

A calculator capable of the operations 10^x , e^x , $\log x$, and $\ln x$ is required. **Programmable calculators are not allowed.** See the following site for details on this policy:
<http://www.chem.fsu.edu/editors/Sdillon/genchemlab/common/calculator.html>

Course Description/Objectives

This course is intended for science majors who will take further chemistry courses. It is a prerequisite to General Chemistry II (CHM 1046) and more advanced chemistry courses. It will count for liberal studies credit, but non-science majors desiring a single terminal course in chemistry should consider CHM 1020 instead. CHM 1030 is an alternative shorter general chemistry course leading to CHM 2200C, a one-semester organic chemistry course intended for some majors in the College of Human Sciences. Students with credit in CHM 1020 or CHM 1030 who are switching to a major requiring the main chemistry sequence may take CHM 1045 for reduced credit.

The course covers the first eleven chapters of the textbook. Topics include measurement and dimensional analysis, classification of matter, periodic properties of the elements, composition and nomenclature of compounds, quantitative relationships in chemical reactions, reactions in aqueous solution, properties of gases, thermochemistry, atomic structure, chemical bonding, and molecular structure.

By the end of the course students should have a working knowledge of the concepts covered in each chapter, including an ability to write and name chemical formulas, to predict and write equations for some chemical reactions, to calculate mass and energy relationships between products and reactants, to describe the electronic structure of atoms and the bonding in molecular and ionic compounds, and to calculate property changes in gases. Specific objectives for each chapter are available in the textbook at the end of each chapter.

Exams:

There will be four Hour-Tests and a Final Exam. Note their scheduled dates now and plan your calendar accordingly. There **will be no make-up tests**.

Hour Test 1	Monday, January 31
Hour Test 2	Monday, February 29
Hour Test 3	Monday, March 28
Hour Test 4	Monday, April 18
Final Exam	Wednesday, April 27, 10:30 am - 12:00 pm (Block Exam time)

Help Sessions

Alpha Chi Sigma usually schedules help sessions for all 1045 tests. In addition, one of the recitation instructors will hold a help session before each exam, time to be announced.

Recitations and quizzes:

Attendance at recitation is required. Short quizzes will be given in each recitation after the first, and part of your grade will be determined by performance on these quizzes and your recitation participation.

Graded Homework:

You will be assigned homework problems to be answered on the computer through the LON-CAPA system. (Learning On Line Network-Computer Assisted Personalized Approach). Information on this system can be found on the class Blackboard site. **It is okay (even encouraged) to work in groups on these homework problems, although each student will be assigned an individual set of problems that he or she must answer.** Multiple attempts are possible. Recitation instructors are asked not to work your specific problems for you, but they may give you hints. Problem sets will generally be available on Monday mornings and must be completed by Saturday noon of that week.

Other Homework:

Mastering the computational skills and concepts of the course may require even further practice with problem sets. Additional practice problems can be obtained online at: http://proton.csudh.edu/lecture_help/lechelp.html, and the textbook web site has some practice quizzes. In addition, you are encouraged to work as many problems at the end of the chapter as you are able. Following are some suggested problems to begin with. They will not be graded nor taken up. *Some of these problems will appear on the tests and exam!*

Chapter 1	1, 4, 5, 8, 13, 19, 21, 22, 30, 38, 39, 42, 43, 59, 76, 91
Chapter 2	3, 4, 7, 9, 13, 18, 19, 34, 38, 47, 55, 67, 76, 88, 101, 111
Chapter 3	2, 17, 25, 35, 44, 50, 54, 61, 62, 77, 102, 130
Chapter 4	1, 5, 11, 14, 33, 42, 47, 53, 64, 76, 92, 113, 125
Chapter 5	1, 2, 9, 14, 22, 30, 40, 55, 66, 69, 74, 88
Chapter 6	1, 5, 10, 21, 28, 29, 37, 50, 54, 65, 75, 80
Chapter 7	2, 7, 16, 23, 29, 31, 37, 42, 51, 59, 63, 73
Chapter 8	7, 11, 16, 23, 24, 35, 37, 53, 54, 65, 70, 80
Chapter 9	1, 6, 12, 18, 30, 33, 56, 61, 69, 74, 79, 81
Chapter 10	1, 3, 26, 30, 34, 39, 47, 53, 99
Chapter 11	5, 7, 12, 20, 25, 39, 46, 48
Chapter 12	2, 5, 23, 34, 145

Study Hints:

Prepare for class and recitation. Read the book before material is to be covered in class, and come prepared with questions on things you don't understand. A large portion of the course involves solving various problems. In addition to the quizzes and LON-CAPA homework, try as many of the end-of-chapter problems as you can, and use the on-line drill practice until you are confident in your abilities. Usually there is more than one way to set up and solve chemistry problems, especially complex ones, and understanding what you are doing and why is preferred to memorizing steps. **Some memorization will be necessary, however, such as names and symbols of elements, and you should undertake these tasks as they come up, not the night before a test.** Take good class notes, revise them after class to see if there are points you don't understand, and develop a content outline from the notes to serve as a study guide for each exam. When you have

trouble working a problem, after it is explained try working another similar one from those at the end of the chapter. Use the web to help clarify things, but don't expect the computer to replace the need for old-fashioned studying!

Grading:

The course grade will be calculated on the basis of 1200 points, distributed as follows:

Four Hour Tests,* 100 points each:	400 points
Final Exam, 100 points x 3:	300 points
Recitation participation (5 points quiz, 5 points attendance) 10 points each, highest 11 counted:	110 points
LON-CAPA Homework, 10 points each, highest 9 counted::	90 points
Laboratory part	300 points
Total	1200 points

***No make-up tests. Exam grade will replace excused absence grade.**

Grading Scale:

Letter Grade Total Score divided by 12

A	90-100
A-	87-89.9
B+	83-86.9
B	80-82.9
B-	77-79.9
C+	73-76.9
C	70-72.9
C-	65-69.9
D+	62-64.9
D	60-61.9
D-	57-59.9
F	0-56.9

(I reserve the right to lower the cut-off score at a grade level, but I will not raise it.)

Blackboard and Class Web Pages

Your web interface with the course will be through Blackboard. **You must obtain an FSU Email account on garnet or mailer in order to access this material!** A separate handout describes the Blackboard interface. You can register for an FSU account at:

<http://cars.acns.fsu.edu>

For new students two other links will be of help in getting set up for computer use at FSU:

<http://www.acns.fsu.edu/students/> and <http://gtcr.fsu.edu/>

When you log in to Blackboard (at <http://campus.fsu.edu>), you will find three links associated with this course. One is the general link for the lecture, and most of the course lecture materials will be found at this site. A second will be the link for your recitation section. This is the site your recitation instructor will use to communicate with you and to post your recitation grades. The third is a link to the laboratory portion of the course.

When logging into the course web site at a public computer, be sure to log out when finished. Otherwise the next person can view your course materials and can impersonate you in Email messages!

Honor Code

Students are expected to uphold the Academic Honor Code. The Academic Honor System of The Florida State University is based on the premise that each student has the responsibility to:

- 1.Uphold the highest standards of academic integrity in the student's own work,
- 2.Refuse to tolerate violations of academic integrity in the University community, and
- 3.Foster a high sense of integrity and social responsibility on the part of the University community.

Cheating will result in an automatic "F." The full honor code is available at

<http://www.fsu.edu/~union/honor.htm>

ADA Requirements

Students with disabilities needing academic accommodations should:

- 1.Register with and provide documentation to the Student Disability Resource Center (SDRC).
- 2.Bring a letter to the instructor from the SDRC indicating you need academic accommodations. This should be done within the first week of class.

(This syllabus and other class materials are available in alternative format upon request.)

For more information about services available to FSU students with disabilities, contact the Assistant Dean of Students:

sdrc@admin.fsu.edu, Disabled Student Services, 08 Kellum Hall, Florida State University, Tallahassee, FL 32306-4167, (850) 644-9566.

or visit their web site at:

<http://www.fsu.edu/~staffair/dean/StudentDisability/index.html>