

**CH 101-002 TR 9:30 -10:45 AM and M 6:30-7:50 PM 151 Shelby Hall
Spring 2006
Tentative Lecture/Exam Schedule**

Week		Date	Chapter	Week	Date	Chapter
				10*	*Exam II Mar. 13	
1	Thursday	Jan. 12	1		Mar. 14	6
					Mar. 16	6
2	Tuesday	Jan. 17	1	11	Mar. 20-24	
	Thursday	Jan. 19	1		Spring Break	
3	Tuesday	Jan. 24	2	12	Mar. 28	7
	Thursday	Jan. 26	2		Mar. 30	7
4	Tuesday	Jan. 31	2	13	Apr. 4	7
	Thursday	Feb. 2	3		Apr. 6	8
5	Tuesday	Feb. 7	3	14	Apr. 11	8
	Thursday	Feb. 9	3		Apr. 13	8
6*	Monday	*Exam I Feb. 13		15*	*Exam III Apr. 17	
	Tuesday	Feb. 14	4		Apr. 18	9
	Thursday	Feb. 16	4		Apr. 20	9
7	Tuesday	Feb. 21	4	16	Apr. 25	9
	Thursday	Feb. 23	5		Apr. 27	10
8	Tuesday	Feb. 28	5	17	May 2	10
	Thursday	Mar. 2	5		May 4	10
9	Tuesday	Mar. 7	6		*Hour Exams 6:30-7:50 PM	
	Thursday	Mar. 9	6			

Final Exam May 11th 8 – 10:30 AM

***Exam I Feb. 13**

***Exam II Mar. 13**

***Exam III Apr. 17**

CHEMISTRY 101-002 SPRING 2006

I. INSTRUCTOR

Dr. Joseph S. Thrasher, E-mail: fluorine@bama.ua.edu, Phone: 8-8436

Office: 206J Shelby Hall; Office Hours: by appointment, either by phone (8-8436) with my secretary Ms. Jackie McPherson, or by e-mail, or in person before or after lecture

II. OBJECTIVE

The objective of this course is to introduce students to the basic facts and principles of chemistry. Some of the topics included: chemical formulae, stoichiometry, atomic structure, chemical periodicity, molecular structure, and bonding theories.

III. TEXT

The text is "Chemistry" by Raymond Chang, 8th edition

IV. LABORATORY MANUAL

The lab manual is "General Chemistry Laboratory Manual" by Petra A. M. van Koppen. Chemistry is a "hands-on" science. The experiments have been designed to assist the student in learning fundamental chemical principles. The experiments will serve as an introduction to the basic laboratory operations and skills needed in the practice of chemistry. Each student **must** purchase a lab manual and enroll in a lab section. Other safety rules will be explained during your first laboratory.

Laboratory sections will start meeting the first full week of the semester or the week of January 23rd. More than two (2) absences in laboratory will result in failure of the entire course (grade F).

V. COURSE GRADES

<u>Exam 1</u>	<u>Exam 2</u>	<u>Exam 3</u>	<u>HW</u>	<u>Quizzes</u>	<u>Attend</u>	<u>Lab</u>	<u>Final</u>	<u>TOTAL</u>
100	100	100	50	50	50	150	150	650 points
⏟ (Drop lowest score)								

A. Exams

You must bring your ACT card, driver's license, or other photographic identification to all exams in order to receive a grade. Students are strongly encouraged to take all regularly scheduled exams. However, should you have to miss one of these exams it will become your drop grade. If you miss a second exam and can provide a written, reasonable excuse, you will be permitted to use your score (calculated as a percent) on the final exam as a makeup score for the test you missed. **No make-up exams will be given.** No programmable calculators, language translators, pagers, cell phones or similar electronic devices are allowed.

B. Quizzes

Quizzes will be given most every non-test week. Electronic quizzes will be given either in the Monday evening recitation sessions or in the lecture classes using the CPS response units. The response units may be purchased in the SUPE Store (in the Ferguson Center) for ca. sixteen dollars. It is your responsibility to make sure that your response unit is working, including its batteries, and you must bring it to every class meeting and recitation session. Your lowest three quiz scores will be dropped, and the remainder will be used towards a maximum of 50 points; however, all quizzes will count toward your attendance points. **No make-up quizzes will be given.**

C. Homework

Homework assignments will be submitted on the Web using WebAssign. The due dates are listed on the Web site. On average 15 problems will be assigned per chapter for a total of 150 questions for the semester or 50 points. Please check your textbook package and attend your first recitation session (Monday, January 23rd) for extra instructions.

D. Attendance

Attendance is mandatory and will be taken in all class periods with the use of the Einstruction Classroom Performance System (CPS). Your number of attendances will count towards a maximum of 50 points in the class. Since some consideration will be given for a few excused absences, documentation for excused absences will only be necessary in the case of extended absences. The policy is explained in more detail below.

E. Grading Scale

A = 90 - 100

B = 80 - 89

C = 70 - 79

D = 60 - 69

F = < 60

"+" and "-" grades represent the top and bottom third of each letter grade, respectively, and will be given at the discretion of the instructor.

VI. **EXTRA HELP**

Learning Skills Center - The Learning Skills Center is located in 124 Osband Hall, and is loaded with helpful materials. Please visit the center to determine if the available materials might be useful in your study of chemistry. There is a WEB site associated with the course at You have an access code pre-packaged with your text that allows you to log on and use the site.

VII. **RECITATION/EXAM PERIOD (6:30 – 7:50 PM Monday, 151 Shelby Hall).**

This time will be used for exams and some quizzes, with the remaining dates being used for recitation sessions. These sessions will be used primarily for solving end of chapter problems and general review. There is a strong probability that some of the problems worked in the recitation section will appear on quizzes and exams.

VIII. **ATTENDANCE POLICY**

The following sentence is quoted from the 2004-2006 Undergraduate Catalog: **“Students are expected to attend all classes for which they are registered.”** As a result, **attendance will be taken during each class period with the Einstruction Classroom Performance System.** This requires that you purchase a radio frequency response pad from the bookstore and bring it to **every** class period. You may be required to purchase a pad for other courses at the University as well. **If so you only need to purchase one pad. It can be used for all your courses.**

Using a CPS response pad for someone else registered in the course is an act of academic misconduct and will be treated according to University policies.

IX. **ACADEMIC MISCONDUCT**

All acts of dishonesty in any work constitute academic misconduct. The Academic Misconduct Disciplinary Policy will be followed in the event of academic misconduct.

X. **DISABILITY ACCOMMODATIONS**

To request disability accommodations, please contact the Office of Disability Services at 348-4285. After initial arrangements are made with that office, contact your professor.

XI. **IMPORTANT DATES**

January 19	Last day to withdraw from the University (all classes) for 100% credit but registration charge held
January 19	Last day to register or add a course
February 22	Midterm grades due for freshmen
March 29	Last day to drop a course(s) from the schedule (but retain at least one class)

Learning Goals for General Chemistry

Why learn chemistry? Chemistry is the central science. No other subject has as much impact on our daily lives. Chemical reactions occur everywhere - the atmosphere, ocean, our bodies, and in reactors where matter is carefully transformed into useful products such as medicines, fertilizers, plastics, etc. A student that learns the fundamental concepts of chemistry will be able to apply their knowledge to solve problems in a number of other science and engineering disciplines and better understand the chemical world in which they live.

What should a student learn in General Chemistry courses at The University of Alabama?

1. Understand the difference between a hypothesis, theory, and scientific law
2. Understand the difference between qualitative and quantitative observations
3. Understand the Periodic Table
4. Understand atomic theory and its ability to explain macroscopic properties
5. Understand stoichiometry
6. Understand bonding theories
7. Understand thermochemistry and electrochemistry
8. Understand the principles of equilibrium and kinetics
9. Identify intermolecular interactions
10. Identify common chemical reactions, including acid/base reactions
11. Know common units of mass, volume, temperature, etc.
12. Understand how chemistry impacts our daily lives