

FALL 2007
CH 101-001 MWF 9-9:50 AM
150 Shelby Hall

Tentative Lecture/Exam Schedule

Week	Weekday	Date	Chapter	Week	Date	Chapter
1	Wednesday	Aug. 22	1	10	Oct. 22	6
	Friday	Aug. 24	1		Oct. 24	7
2	Monday	Aug. 27	1	11	Oct. 26	7
	Wednesday	Aug. 29	2		Oct. 29	7
	Friday	Aug. 31	2		Oct. 31	7 Exam 3
SEPTEMBER 3 LABOR DAY						
3	Wednesday	Sept. 5	2	12	Nov. 5	8
	Friday	Sept. 7	2		Nov. 7	8
4	Monday	Sept. 10	3	13	Nov. 9	8
	Wednesday	Sept. 12	3		Nov. 12	9
	Friday	Sept. 14	3		Nov. 14	9
5	Monday	Sept. 17	3	14	Nov. 16	9
	Wednesday	Sept. 19	4 Exam 1		Nov. 19	9
	Friday	Sept. 21	4		THANKSGIVING	
6	Monday	Sept. 24	4	15	Nov. 26	10
	Wednesday	Sept. 26	4		Nov. 28	10 Exam 4
	Friday	Sept. 28	4		Nov. 30	10
7	Monday	Oct. 1	5	16	Dec. 3	10
	Wednesday	Oct. 3	5		Dec. 5	10
	Friday	Oct. 5	5		Dec. 7	review
8	Monday	Oct. 8	5	FINAL Friday, Dec. 14th		
	Wednesday	Oct. 10	6 Exam 2	8:00 AM – 10:30 AM		
OCTOBER 12 FALL BREAK						
9	Monday	Oct. 15	6	Exams 1 – 4		
	Wednesday	Oct. 17	6	will be given on Wednesday		
	Friday	Oct. 19	6	from 5:00 - 6:20 PM in 150 Shelby Hall		

**CHEMISTRY 101-001 FALL 2007
MWF 9-9:50 AM 150 Shelby Hall**

I. INSTRUCTOR

Dr. John Vincent
E-mail: jvincent@bama.ua.edu
Phone: 8-9203
Office: 324 Shelby Hall Office Hours: M 3-5 PM

II. OBJECTIVE

The objective of this course is to introduce students to the basic facts and principles of chemistry. Some of the topics included are: chemical formulas, reaction stoichiometry, atomic structure, chemical periodicity, molecular structure, covalent bonding theories, molecular orbitals, gas laws, and kinetic molecular theory. Prerequisite: placement in MATH 112.

III. TEXT

The text is "Chemistry: A Molecular Approach" by Nivaldo J. Tro, 1st edition. The book has been customized for The University of Alabama by removing chapters not to be covered and putting on a soft cover thereby reducing the cost and weight. It is recommended that each student should have access to the student solutions manual, which provides solutions to new problems at the end of each chapter. The solutions manual is available in bookstores.

IV. LABORATORY MANUAL

The lab manual is "General Chemistry Lab CH 101/102, University of Alabama, Chemistry Department". 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 August 27th. **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>Exam 4</u>	<u>HW</u>	<u>Lab</u>	<u>Final</u>	<u>TOTAL</u>
100	100	100	100	100	150	150	700 points

(Drop lowest score)

Grading Scale

A = 90 – 100 B = 80 - 89 C = 70 - 79 D = 60 - 69 F < 60

+/-'s will given given at the instructor's discretion.

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. In essence this would make your final exam worth 250 points. This is really not a very good option– so every effort should be made to take these exams as scheduled. **No make-up exams will be given.** No programmable calculators, language translators, pagers, cell phones or similar electronic devices are allowed. You must use the Casio FX-260 (Virginia State model) calculator for examinations; this calculator is available at the Supe Store for ~\$10.00.

B. Homework

Homework assignments will be submitted on the Web using MasteringChemistry. The due dates are listed on the Web site. MasteringChemistry access can be purchased with the textbook at the Supe Store or on the Internet. The course code for this section is CH101001Fall2007.

C. Attendance

It is the near-universal experience in college chemistry that students who attend class faithfully make higher grades than those who do not. A recent study in the Department of Chemistry found that every student who earned a grade of D or F had a large number of absences. This is, in part, because some of the problems presented in class show up on exams and on assigned homework problems. Thus, you are strongly advised against missing class. The following sentence is quoted from the 2006-2008 Undergraduate Catalog: **“Students are expected to attend all classes for which they are registered.”**

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. You have an access code pre-packaged with your text that allows you to log on and use the site.

Review Sessions - Depending on demand, review sessions may be scheduled prior to exams.

Office Hours - The course instructor has designated office hours, during which they expect to help any students who want extra instruction. Do not overlook this resource. Office hours are M 3-5 PM.

VII. RECITATION/EXAM PERIOD (5 – 6:20 PM Wednesday, 150 Shelby)

This time will be used for exams, 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 exams.

VIII. 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.

IX. 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.

X. IMPORTANT DATES

August 29	Last day to withdraw from the University (all classes) for 100% credit but registration charge held
August 29	Last day to register or add a course
October 3	Midterm grades due for freshmen
October 31	Last day to drop a course(s) from the schedule (but retain at least one class) with a grade of "W"

Suggested End-of-Chapter Problems

<u>Chapter</u>	<u>Title</u>	<u>Problems</u>
1	Matter, Measurement and Problem Solving	33, 37, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 65, 67, 71, 73, 75, 77, 79, 83, 87, 93
2	Atoms and Elements	31, 35, 37, 41, 43, 45, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 79, 81, 83, 85, 87, 89, 109
3	Molecules, Compounds and Chemical Equations	23, 25, 27, 29, 31, 33, 35, 37, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 69, 71, 73, 77, 79, 81, 85, 87, 89, 93, 95, 99
4	Chemical Quantities and Aqueous Reactions	25, 27, 29, 33, 37, 39, 41, 45, 47, 49, 51, 53, 55, 59, 63, 65, 67, 69, 71, 75, 77, 79, 83, 85, 87

5	Gases	29, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 57, 61, 63, 67, 71, 75, 79, 81, 83, 85, 87, 89, 91
6	Thermochemistry	33, 35, 37, 39, 45, 47, 53, 55, 57, 59, 61, 63, 67, 69, 71, 73, 75, 107, 117
7	The Quantum-Mechanical Model of the Atom	37, 39, 41, 43, 47, 51, 53, 55, 57, 59, 63, 65, 67, 71, 93
8	Periodic Properties of the Elements	41, 43, 45, 47, 49, 51, 53, 55, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 121
9	Chemical Bonding I: Lewis Theory	37, 39, 41, 43, 45, 51, 53, 55, 57, 59, 61, 65, 67, 69, 71, 73, 75, 77, 79, 81, 95
10	Chemical Bonding II: Molecular Shapes, Valence Bond Theory And Molecular Orbital Theory	29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 67, 69, 71, 73, 75, 77, 79, 81, 89, 91, 99, 101