

**CH 101
FALL 2002
Tentative Lecture/Exam Schedule**

Week		Date	Chapter	Week	Date	Chapter
1	Wednesday	Aug. 21	1 ^a	10	Oct. 21	7
	Friday	Aug. 23	1		Oct. 23	7 Exam 3
					Oct. 25	7
2	Monday	Aug. 26	1	11	Oct. 28	8
	Wednesday	Aug. 28	2		Oct. 30	8
	Friday	Aug. 30	2		Nov. 1	8
SEPTEMBER 2, LABOR DAY						
3	Wednesday	Sept. 4	2	12	Nov. 4	8
	Friday	Sept. 6	2		Nov. 6	9
					Nov. 8	9
4	Monday	Sept. 9	3	13	Nov. 11	9
	Wednesday	Sept. 11	3 Exam 1		Nov. 13	9
	Friday	Sept. 13	3		Nov. 15	9
5	Monday	Sept. 16	3	14	Nov. 18	10
	Wednesday	Sept. 18	4		Nov. 20	10 Exam4
	Friday	Sept. 20	4		Nov. 22	10
6	Monday	Sept. 23	4	15	Nov. 25	10
	Wednesday	Sept. 25	4		Nov. 27	12
	Friday	Sept. 27	5		THANKSGIVING	
7	Monday	Sept. 30	5	16	Dec. 2	12
	Wednesday	Oct. 2	5 Exam 2		Dec. 4	12
	Friday	Oct. 4	5		Dec. 6	12
8	Monday	Oct. 7	5	FINAL EXAM		
	Wednesday	Oct. 9	6	Monday, Dec. 9, 7-9:30 PM		
	Friday	Oct. 11	6	^a Web site demo, 5:00 PM		
9	Monday	Oct. 14	6	Exams I, II, III, & IV will be given on Wednesday evenings from 5:00-6:20 PM		
	Wednesday	Oct. 16	6			
	Friday	Oct. 18	7			

**CHEMISTRY 101 (FALL 2002)
INFORMATION ITEMS**

I. INSTRUCTORS:

<u>Lecture Section</u>	<u>Instructor</u>	<u>Office Hours</u>	<u>Office #</u>
CH 101-001 (MWF 10 A.M.)	M. Bakker	2-3:30 W and 11-12 F	Room 335
CH 101-002 (TR 9:30 A.M.)	L. Kispert	TR 11AM -1 PM	Room 255

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 and gas laws.

III. TEXT

The text is Chemistry & Chemical Reactivity by Kotz and Treichel, 4th ed. It is recommended that each student should have access to the student solutions manual, which provides solutions to problems at the end of each chapter. The solutions manual is available in bookstores.

IV. LABORATORY MANUAL

The lab manual is University of Alabama Chemistry Laboratory Manual: Lab Text for CH 101/102, 117/118, 131/132 edited by Whitney and Vincent.

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. Each CH-101 student must take and pass the laboratory. If you fail in the laboratory, you **fail** the course, no matter how well you perform in the lecture.

V. COURSE GRADES

Exam I	Exam II	Exam III	Exam IV	Home- Lab work	Final	TOTAL
100 pts	100 pts	100 pts	100 pts	100 pts	50 pts.	150 pts 600 pts

(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 "hour" exams (Exams I, II, III, and IV). 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 or similar electronic devices are allowed.

B. Grading Scale

A = 90 - 100

B = 80 - 89

C = 70 - 79

D = 60 - 69

F = < 60

"+"s and "-" will be decided at the instructor's discretion.

VI. EXTRA HELP SESSIONS

Office Hours - The course instructor has designated office hours, during which he expects to help any students who want extra instruction. Do not overlook this resource.

Learning Skills Center - The Learning Skills Center is located in Osband Hall, and is loaded with helpful materials for CH-101 and 102. Please visit the center to determine if the available materials might be useful in your study of chemistry.

Please note that videotapes of the lectures (for both CH 101 & 102) are also available in the Learning Skills Center. You may find these tapes helpful if you miss a lecture or simply want a review.

VII. RECITATION SESSIONS (5-6:20 P.M., Wednesday).

All sections of CH-101 are scheduled to meet on Wednesday evenings. These times will be used for exams and the remaining dates will be

recitation sections. These sessions will be used primarily for solving additional study problems (see Section XIII). There is a strong probability that some of the problems worked in the recitation section will appear on an exam. Recitations (not exams) will be held in rooms LY 230 and 231; your instructor will provide further details.

VIII. WHO SHOULD TAKE CH-101?

Please study the following information and then decide which chemistry course (101, 104 or 107) is right for you. This information is copied from the chemistry section of The University of Alabama's Freshman Course Placement brochure.

Students who plan to take only one or two semesters of chemistry for the University Core Curriculum requirement in Natural Science or for elective hours should register for CH 104 or CH 107 (Introductory Chemistry). Nursing majors should register for CH 104.

Math Placement Score	Course
<hr/> Students taking only two semesters of chemistry	
Any score	CH 104 or CH 107 Introductory Chemistry
Students who plan to take more than two semesters of chemistry	
Less than MATH 112	CH 104 Introductory Chemistry
MATH 112 or higher	CH 101 General Chemistry

IX. ATTENDANCE POLICY

A roll sheet will be circulated each class period to track attendance. Beyond the third class absence, the student's grade will be reduced as indicated below. Perfect attendance will be rewarded with an extra 10 points added to the student's final point count. It is the student's responsibility to know his/her absences. Questions about attendance records can be addressed to Evelyn Jackson in the Chemistry Office.

<u>Absences</u>	<u>Grade Reduction</u>
4-5	one grade level
6-7	two grade levels
>7	automatic failure

In the laboratory, **attendance is required.**

X. 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.

XI. 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.

XII. HOMEWORK

Every student must get an e-mail account to perform homework on the web site associated with the textbook. Further details will be provided by the instructor.

XIII. Additional problems to work

Chapter	Title	Study questions at end of chapter
1.	Matter & Measurement	6, 8, 10, 14, 22, 26, 28, 34, 38,40,44, 46
2.	Atoms & Elements	2, 4, 6, 10, 20, 22,26,32, 34,50
3.	Molecules & Compounds	8, 10,20, 22, 28, 32,34, 36, 38, 40, 42,44, 46, 48, 56, 58, 64, 68, 72,82
4.	Chemical Equations and Stoichiometry	6, 12, 14, 18,22, 26, 30, 32, 36,40
5.	Reactions In Aqueous Solution	6, 8, 12, 18,24,30, 34, 44, 50,54,62,66, 76, 78, 82, 84
6.	Principles of Reactivity: Energy & Chemical Reactions	14, 16, 20, 24, 28, 30, 34, 36, 42, 44, 50, 58, 60, 66, 70
7.	Atomic Structure	2, 8, 12, 16, 22, 26, 34, 36, 38, 44, 46, 48 56, 62, 78
8.	Atomic Electron Configurations & Chemical Periodicity	2, 10, 22, 32, 36, 40, 42, 46, 48, 50, 52, 54, 60, 64, 70, 74
9.	Bonding & Molecular Structure: Fundamental Concepts	2, 10, 12, 14, 28, 34, 38, 42, 46, 48, 52, 58, 60, 64, 68,70, 76,82, 90, 92
10.	Bonding & Molecular Structure: Orbital Hybridization and Molecular Orbitals	16, 18, 20, 24, 28, 30, 46, 50,52
12.	Gases and Their Properties	14, 16, 20, 22,26, 28, 32, 44, 46,48, 52, 62, 64, 68