

CHEMISTRY 100
Spring 2002

Instructor: Monica Ali, Pierce Hall, Room 210, Telephone Number 4-8340

Lecture: Monday, Wednesday, and Friday 9:35 – 10:25 AM

Location: Pierce Hall, Room 201

Required Instructional Materials: Bettelheim, F.A., Brown, W.H. & J. March, "General, Organic, & Biochemistry," 6th edition, Harcourt College Publishers, New York, NY 2001

Vining, W.J., "Interactive General, Organic & Biochemistry CD-ROM to accompany Bettelheim, Brown & March Introduction to General, Organic & Biochemistry" Harcourt College Publishers, New York, NY 2001
(The CD-ROM) accompanies the text)

Scovell, W.M., "Study Guide to Accompany Bettelheim, Brown, & March, Introduction to General, Organic & Biochemistry, 6th ed.," Harcourt College Publishers, New York 2001

Goals of Course: The study of science, particularly chemistry in this case, can lead to an understanding and appreciation of science as a part of a liberal arts education. One goal of a liberal arts education is an awareness and appreciation of one's surroundings. In order to begin to understand the natural world around us, one needs to have a basic concept of the nature and workings of chemical materials, which comprise our bodies and all other materials around us.

The ability to think clearly and critically is a skill, which is a valuable asset in any part of life. In order to think clearly and critically, one must be able to solve problems. The ability to think, to consider different pieces of information and formulate a rational and reasonable plan of action, based upon that information, is a skill that may be learned, partially, through the study of chemistry.

In a time when multiple, significant developments in science and technology, many of which may have profound ethical consequences, are taking place, all people need to have some understanding, at least in general terms, of both the nature and possible significance of these developments. The study of chemistry can develop a scientific literacy, which can provide part of the basis upon which to make decisions about the appropriate uses of the scientific and technological developments.

- Course of Study:** We will thoroughly study Part One: General Chemistry, Chapters 1 to 9. In addition, there may, from time to time, be brief assignments in Part Two: Organic Chemistry, Chapters 10 to 18 and in Part Three: Biochemistry, Chapters 19 to 31. Such assignments would be announced in class or be posted on the class learnlink site.
- Honor Code:** The Honor Code is endorsed on the Oxford College campus. The Honor Code promotes the virtues of honesty and academic integrity. Briefly, any work for which you receive a grade is to be completed with the Honor Code in mind. Your signature on your work indicates that you have abided by the Honor Code. You may not give help to anyone, you may not accept help from anyone, nor may you use any unauthorized materials for graded material.
- Electronics:** The use of beepers and cell phones in class is not allowed. Laptop computers are allowed if they are quiet.
- Attendance:** Attendance is required and will be taken every class. Should you be present for every class, a bonus point will be added onto your final average. In addition to coming to class, you must come on time. Your walking into the class late is disruptive to both the teacher and the students. Coming to class late more than five times will count as one absence. Should you incur more than three absences, **one point, per class missed, will be subtracted** from your final average.
- Learnlink Conference:** The class has a learnlink computer conference. Please check the conference on a regular basis for announcements regarding the class. Problem sets for each chapter, times for help sessions, readings outside of chapters one through nine in the text, web site addresses, and any other appropriate notices, will be posted regularly on the conference.
- Handouts of Chapter:** A brief sketch outline of each chapter will be provided on the learnlink computer conference. You may print the outline and use it to take notes in class. This outline will be an indication of important topics for each chapter and should prove to be helpful when studying for tests and quizzes.
- Problem Sets:** Problems from the end of each chapter will be assigned. The specific problems, for which you are responsible, will be listed on the class learnlink conference. You are strongly encouraged to work all the

problems assigned. At least one problem from each problem set will be seen on the test or quiz for that material.

CD-ROM The CD-ROM, which accompanies the text, provides supplementary material to help in your understanding of the material covered in the chemistry class. The CD-ROM is divided into three sections; general, organic, and biochemistry. You are responsible for the general chemistry section, which contains nine chapters. As we cover each of the nine text chapters in class, you should examine the corresponding chapter on the CD-ROM. Some corresponding material from the CD-ROM will appear on each of the tests or quizzes.

Suggested Method of Study: After attending each class, look over your **class notes** from that day and work any assigned problems, which pertain to the material discussed that day. Try to completely **work the problems** yourself before looking up answers in the back of the text. You are encouraged to form **small study groups with a few other classmates**. Get together with one or two other students in the class on a **regular basis** to help each other with any questions you may have. Utilize the **Study Guide** for additional practice with chemistry problems. At least one problem from pertinent material in the Study Guide will appear on each test or quiz.

You will gain the most from each class if you familiarize yourself, with the material to be discussed that day, before you come to class. **Read ahead in the text** so that you are always slightly ahead of the class lecture.

Help Sessions: A general help session, available to all chemistry 100 students, will be held before each quiz and each test. These help sessions will generally be held on the day before the quiz or test, when possible. In the case of a Monday test or quiz, the help session will be on either the Thursday or Friday afternoon before the Monday. Usually the meetings are in the afternoon after laboratories. Check the learnlink class conference for the times of the meetings.

Tests: Tests will be given for fifty-five minutes during the class period. Four tests will be given, usually on the Fridays immediately following completion of **chapters two, four, six, and eight**. Test questions may include multiple choice, short answer, word and mathematics problems, and short essays. Please bring a calculator to all tests.

If you are late for a test, no extra time will be given to take the test. **THERE ARE NO MAKEUP TESTS.** If you will miss a test, you

MUST notify the instructor **BEFORE** the test with the reason for your absence. If your reason is acceptable to the instructor (*eg.* life and death situations), the test will not be calculated into your grade. If the reason is not acceptable to the instructor, the grade for the test will be **ZERO** if you do not take the test, and the zero will be averaged into your grade. The instructor makes the final decision about the reasonableness of any excuse. If more than one test is missed, the grade is automatically zero on the second and any subsequently missed tests and will be averaged into the final grade.

Quizzes: Five quizzes will be given, usually on the days following completion of **chapters one, three, five, seven, and nine**. The best four of the five quizzes will be equivalent to one test, and will be calculated into your grade as an additional test. The quizzes will last for approximately twenty minutes and will be given at the end of the class period. If you are late for a quiz, no extra time will be given for the quiz. There are no makeup quizzes. Should a quiz be missed (for any reason), the grade for the quiz will be zero. The format of the quizzes will be the same as that of the tests.

Final Exam: The final examination is **comprehensive** and will be given on Wednesday, May 8th from 2:00 to 5:00 PM.

Calculation	Tests & Quizzes	=	60%
of Final	Final Exam	=	15%
Grade:	Laboratory	=	20%
	My evaluation	=	5%

My evaluation will consider **your attitude, preparedness for class and participation in class**. My evaluation, as well as your performance on tests, quizzes, and the final exam, will be involved in determining your final grade.

The grade reported for an individual will be one of the following:

A, A-, B+, B, B-, C+, C, C-, D+, D, or
F

Religious Holidays: Please notify the instructor in writing one week in advance if you will be out of class for one of the religious holidays indicated on the campus list of religious holidays.

Office Hours: By appointment and Wednesday, and Friday, 1:30-2:30 PM. I encourage you to come to my office to discuss any questions and concerns you may have with chemistry. I will occasionally have meetings on the Atlanta campus when it will be necessary to cancel the office hours for that day.

Laboratory: You will receive a syllabus for the laboratory containing the rules and procedures for laboratory. **IN ORDER TO PASS THE COURSE, IT IS NECESSARY TO PASS THE LABORATORY PORTION OF THE COURSE.** Laboratories are held Monday afternoons from 2:00-5:00 PM and Tuesday afternoons from 2:30-5:30 PM. You will meet first in the classroom, Pierce Hall, room 201, before going into the laboratory.