# Chemistry 100
# Spring 2003

**Instructor: Ms. Coonce**
**Office: 216 Pierce Hall**
**E-mail: jmgray@learnlink.emory.edu (Janet Gray Coonce)**
**Office hours:**
Mon. 1-3, Tues 9-11
You are always welcome to stop by my office anytime. If I am not available, please leave a message on my dry erase board - I also check my e-mail regularly.

**Text.** Bettelheim, F.A., Brown, W.H. & J. March, "General, Organic, & Biochemistry," 6th edition, Harcourt College Publishers, New York, NY 2001. (comes with CD)

**Review Sessions.** Rooms and times will be announced throughout the semester. Please contact me if you are having any problems, questions, or concerns. I promise to make every effort to help you learn chemistry, but the ultimate responsibility for your achievement is your own.

**Attendance**. All students are expected to attend all lecture and laboratory sessions. However, it is recognized that emergencies may arise which may necessitate absences from class. You should notify me if an absence is due to illness or other emergency. If you will be out of class for one of the religious holidays, please notify me one week in advance. You are responsible for all material covered in lecture if absent.

You are allowed 3 absences in lecture and NO ABSENCES in lab.

If you exceed the 3 absence limit in lecture for whatever reason, you will lose 1 point for the next absence (number 4), 2 points for the next absence (number 5), and 3 points for each additional absence (numbers 6 and up). These points will be deducted from the final course average.

Make-up exams are not given, regardless of the reason an exam was missed. If you miss an exam and present me with an acceptable excuse, the grade on the final exam will count in place of the missed exam grade. You must notify me by the day and time of the exam that you will not be present and you must give me the reason for the absence. If the excuse is not considered acceptable, the exam grade will be a zero. It is up to me as the instructor to make the determination as to whether an excuse is acceptable. In general, illness or an emergency situation are the only acceptable excuses for missing an exam. Missing an exam also counts as an absence in the course.

Being late to class is rude and distracting. Therefore, 3 tardies will be considered equal to 1 absence. If you come in more than 15 minutes tardy , you will be counted absent. If you come in late, it is your responsibility to see me immediately after class to ensure that you are marked tardy and not absent. No adjustments will be made at a later time. If you are continuously tardy, you may be excluded from further classroom attendance. When you are in class, you must be attentive and not disturb others. Leaving a class early counts as an absence, as does sleeping through a class or being generally inattentive. One point will be added to your final average for perfect attendance.

**Cell phones and pagers are not allowed in class or lab**. Food and drink are not allowed in class or lab; however, beverages in spill-proof containers may be brought into class.

**Oxford College and Liberal Arts.** Oxford College is dedicated to a liberal arts education, and science, including chemistry, is an integral part of the liberal arts. In this course, you will have an opportunity to master these liberal arts skills (see the class LearnLink conference for more information):

**Learning Goals.** The primary learning goals for this class are for you to:

- Utilize critical thought and reasoning to understand chemical behavior at the microscopic and macroscopic levels.
- From your knowledge of chemistry and chemical systems, be able to develop solutions to problems which you have not encountered before.

**Course objectives:**

We will thoroughtly study Part One: General Chemistry, Chapters 1 to 9. In addition, there may be brief assignments in Parts Two and Three.
After completing this course, you should be able to:

1. Take scientific measurements and discuss accuracy, precision, and uncertainty.
2. Discuss the building blocks of matter: atoms, ions, and molecules.
3. Explain why chemical bonds form and how compounds differ from elements.
4. Write balanced reactions and calculate and describe energy relationships.
5. Describe fundamental forces that hold matter together in different forms.
6. Use the arithmetic of chemistry to do calculations and solve a wide range of problems.
7. Discuss the scientific method and the applications of chemistry in society.

**Learnlink Conference:**

Please check the learnlink computer conference on a regular basis for announcements, times for review sessions, and other important information.

**Class Requirements:**

1. **Quizzes**: You will receive approximately 7 quiz grades throughout the semester. The quizzes may be given in class or given as a take-home quiz. You may also receive a special project that will count as a quiz grade. Your lowest grade will be dropped, and the resulting quiz average will count as one exam grade.

2. **Exams:** There will be 4 exams and a comprehensive final. The exams will be given in class and will include short answer, multiple-choice, problem solving, brief essay questions. Each exam will last 55 minutes. For an exam, you may bring only a calculator and pencils; any other material will be given out with the exam. Make sure your calculator is working and that you know how to use it. Calculators will not be loaned. Storing class information (ie. rules for sig. figs, solubility, naming, etc.) in your calculator for reference during the test is considered a violation of the honor code. You must take the exam during your regular class time. If you come in late, you will not be given extra time to finish the exam. The honor code applies to all exams.

3. **Laboratory sessions:** The laboratory sessions will begin the week of Jan. 27, and the schedule will be provided at that time. Dr. Ali will be your instructor. **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.

4. **Problems:** Problems will be assigned for your benefit – they will not be taken up or graded.

**Grading**:

The final will count as two exam grades, giving a total of 7 exam grades (4 exams + final (counts as 2) + 1 quiz average). The lowest of these 7 grades will be dropped. This average will constitute the lecture portion of your course grade.

Your lab grade will count in one of two ways, whichever results in a higher grade in the course for you:

(1) Your course grade will be computed by adjusting your grade on the lecture portion using your lab average as shown below. This method normally benefits students whose exam average is a high B or an A.

| | | | |
|---|---|---|---|
| 93 and up | +2 | 73 - 75 | -4 |
| 90 - 92 | +1 | 70 - 72 | -5 |
| 85 - 89 | no adjustment | 67 - 69 | -6 |
| 82 - 84 | -1 | 64 - 66 | -7 |
| 79 - 81 | -2 | 61 - 63 | -8 |
| 76 - 78 | -3 | 58 - 60 | -9 |
| | | 57 and below | -10 |

**OR**

(2) Your course grade will be computed by taking 80% of your lecture grade and 20% of your lab grade. This method usually benefits students whose exam average is a B or lower. You must pass both the lecture AND the lab portions of the course or you will receive an F.

**Grading scale.** Grades are normally assigned as follows, with no rounding:

| | |
|---|---|
| 93 - 100 A | 77 - 79 C+ |
| 90 - 92 A- | 73 - 76 C |
| 87 - 89 B+ | 70 - 72 C- |
| 83 - 86 B | 67 - 69 D+ |
| 80 - 82 B- | 60 - 66 D |
| | below 60 F |

**Honor Code**. It is assumed that all Oxford College students will adhere to the highest standards of academic honesty and will uphold the Oxford College Honor Code.

On exams, you may not use any material not distributed with the exam itself except for a calculator and pencils/pens. Any other material you bring into the room must be left at the front of the room. During an examination, you may not give or receive assistance. On assignments for outside class (essays, lab reports), the work is to be your work alone – you may not give or receive any assistance, and you may use only materials authorized. Since absences and tardies can affect your grade, giving false information regarding absences or tardies is a violation of the Honor Code. Note also that the Oxford College Honor Code expects students to report any violations of the Code they know of.

**Exam schedule.**

Exam I Friday, Feb. 7
Exam II Friday, Feb. 28
Exam III Wednesday, Mar. 26
Exam IV Wednesday, April 23

Exams may be moved to the next class meeting if necessary to cover the material.