### Chemistry 160A Structure and Function of Biological Molecules

**Course Description**

Describes the chemistry and biochemistry of amino acids, proteins, nucleic acids, lipids, and carbohydrates. Also includes enzyme kinetics, the structure and function of membranes, and discussion of some common laboratory methods.

**Prerequisite Course:** CHEM124 or other 2nd-semester organic chemistry, with at least a C-. (MATH 26A or MATH 30 is recommended.)

**Meeting Time and Location:** MWF, 10:00-10:50am, Sequoia Hall, Room 456

**Required Materials:**

Fundamentals of Biochemistry; Voet, Voet, and Pratt (John Wiley, Inc., 2008)

37 scantron forms, # 815E

**Point distribution:**   
Midterm 200   
Final                                              400   
Quizzes (36 @ 5 points each) 180   
Homework (11 @ 20 points each) 220   
Total                                            1000

**Grades:** Grades will be based on the total points you earn, using the following scale:

A = 900-1000;  B = 800-899;  C = 700-799;  D = 600-699;  F = 0-599

**Exams:**

* Exams will cover topics discussed in lecture and also topics covered in the assigned reading.
* Eighty percent of each exam will consist of questions similar to the homework questions (including case studies).
* The remaining twenty percent will consist of questions that are very different from the homework questions. To complete these problems, you will have to apply what you have learned.
* Your exams must be solely your own work! ANY violations will be dealt with as harshly as possible.

**Homework:**

* Homework to be turned in includes assigned "Problems" at the end of each chapter and assigned case studies available at <http://www.wiley.com/WileyCDA/Section/id-350210.html>.
* Each assignment is worth 20 points.
* Homework will not be accepted late. However, you may drop (or miss) **one** homework assignment without penalty.
* An answer key will be posted outside of Sequoia 550 the day after homework is due. No copies may be made of the keys.
* For your own benefit, I encourage you work the homework problems and case studies by yourself, then get together with others to discuss the problems.
* If you have questions about the homework problems, you should see me during my office hours. We will not review homework answers in class.

**Quizzes:**

* There will be a quiz at the start of each class meeting.
* Quizzes will start at 8:00 sharp, and end at 8:02 sharp.
* The topic of each quiz is base on the reading listed in the course schedule.
* There will be a total of 38 quizzes. Each quiz is worth 5 points.
* No make-up quizzes are allowed, but your lowest two quiz scores will be dropped.