

Biochemistry: Structure & Function

CH 490, CH 590 -- Fall, 2007
Syllabus

Instructor: Dr. David H. Peyton; 323B SB-I

Office hours: 1:30 - 2:30 MW, or by appointment.

Text: Voet & Voet, Fundamentals of Biochemistry, 3rd ed.
The student is, of course, also responsible for all material given in class.

Web Pages: <http://chem.pdx.edu/~peytond/>
This is a webCT-available course!

CH_590: There will also be reports on the literature for the 590 students.

Overview: This 1-year course (4/590/1/2) is intended to introduce the student to the field of biological chemistry, in an in-depth way. The anticipated coverage of topics this term can be seen from the Table of Contents, Chapters 1-12, as well as parts of 14 & 20. This material forms the basics of structural biochemistry, as well as an introduction to enzyme kinetics (time permitting). Thus, the three-dimensional structures of proteins, lipid, nucleic acids, and carbohydrates will be described, and membrane transport will be introduced. The energetics leading to stable structures will be emphasized. The current state of understanding of biomolecule folding and dynamics will also be covered. Experimental techniques in current use within these fields will be discussed.

Grades: Based on two midterm exams and a cumulative final exam, and quality of literature reports (for CH 590 students).
It is anticipated that incompletes or Xs will not be given. Family emergency and severe illness cases should contact the instructor.

Midterms: Oct 15 (Monday) & Nov 5 (Monday)

The Final: will be worth twice each Midterm score, and the Grade will be awarded based on the standard scale:
90% = A; 80%=B; 70%=C; 60%=D (with +/- within these ranges).
Date/time of the Final Exam: Thursday Dec 6, at 12:30 – 2:20 pm