**CH 490, CH 590 – Fall, 2013 –**

**(Biochemistry: Structure & Function) Syllabus**

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


_The student is, of course, also responsible for all material given in class, and homework as directed._

**Office hours:** 1 – 2 Mon; Thurs, or by appointment (email setup).

**Web Pages:** The PSU system: [https://d2l.pdx.edu/](https://d2l.pdx.edu/)

(Note that this is to be set up by the 3rd week of class.)

**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 1–5, 7, 8.1-8.2, 10, 11.1-11.2, & 6.1-6.4 (& more of Ch. 6 if time permits). This material forms the basics of structural biochemistry, as well as an introduction to enzyme kinetics. Thus, the three-dimensional structures of proteins, lipids, and carbohydrates will be described, membranes will be introduced, and enzyme catalysis begun. 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. In case of family emergency and/or severe illness, please contact the instructor (ASAP).

**Midterms:** Oct 16 (Wednesday) & Nov 15 (Friday)

**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).

An online homework system may be implemented, for ~10% of the final grade.

_Date/time of the Final Exam: Thursday Dec. 12, at 12:30 – 2:20 pm_  
(see [http://www.pdx.edu/registration/final-exams-schedule](http://www.pdx.edu/registration/final-exams-schedule))

**Caveat:** *The terms in this document are subject to change at the discretion of the instructor.*