Lecturer:  Dr. Frank Deis  Nelson A-311, email deis@rci.rutgers.edu.
phone 732-445-2814. Office hours Tuesday 12 to 2, other days by chance.
T.A. Avantika G., email avantika@eden.rutgers.edu

Recommended, "Companion" by Gumport et al. (2002).
Optional -- Montgomery, "Biochemistry: Case Oriented" (pre-meds)
Please visit book website http://www.whfreeman.com/biochem5

**Date**  **Topic**  **Chapter**
Sep  2  Prelude, Biochem. Evolution       Ch. 1 & 2
    7  Protein Structure & Function      Ch. 3
    9  Exploring Proteins               Ch. 4
   14  DNA, RNA, Genetic information    Ch. 5
   16  Exploring Evolution              Ch. 7
   21  Enzymes & Kinetics               Ch. 8
   23  Hemoglobin and Carbohydrates     Ch. 10 & 11
28   **FIRST TEST**
30   Lipids and Membranes, Channels & Pumps Ch. 12 & 13
Oct  5  Metabolism -- cofactors, energy  Ch. 14
    7  Signal Transduction              Ch. 15
   12  Glycolysis and Gluconeogenesis   Ch. 16
   14  Citric Acid Cycle                Ch. 17
   19  Mitochondria, part I             Ch. 18
   21  Mitochondria, part II            Ch. 18
26   **SECOND TEST**
28   Pentose Phosphate Pathway (Calvin Cycle) Ch. 20
Nov  2  Glycogen                        Ch. 21
    4  Fatty Acid Metabolism            Ch. 22
    9  Urea Cycle, Amino Acid Catabolism Ch. 23
   11  Biosynthesis of Amino Acids      Ch. 24
   16  Biosynthesis of Nucleotides      Ch. 25
18   **THIRD TEST**
23   Conclusion of Intermediary Metabolism Geneitic Information Revisited Ch. 5
30   Exploring Genes                   Ch. 6
Dec  2  DNA Replication and Repair      Ch. 27
    7  RNA Synthesis and Splicing       Ch. 28
    9  Protein Synthesis                Ch. 29

**FINAL EXAM** Thursday. Dec. 16, 8-10 PM *(non-cumulative)*

Examinations will be based on the material presented in lecture. You should therefore take careful notes in class. This should be reinforced and clarified by reading and homework assignments in the text. Seating for tests will be assigned in Hill 114 and possibly an "overflow" room. If a bona-fide illness or emergency causes you to miss an exam, please call Dr. Deis at 732-445-2814 or leave a message with the Biochemistry Department Secretary at 732-445-3979 within 24 hours or you could be given a zero on the test. There will be an *automatic markdown* on all make-ups taken for any reason.
Grades posted at http://www.rci.rutgers.edu/~molbio.