

# Introductory Biochemistry & Mol. Bio.

694:301, Section H1  
Index Number 90011

Summer, 2009  
ARC-103

*Lecturer:* Dr. Frank Deis, Nelson A-311, phone 732-445-2814, deis@rci.rutgers.edu.  
Office hours Tuesday 12:15 to 2:15, other days by chance.  
MBB Page: <http://www.rci.rutgers.edu/~molbio/>

*Syllabus:* Readings are in Berg, Tymoczko and Stryer's "Biochemistry", 6th Edition (2006) Suggested, "Companion" by Gumpert et al. (2006).  
Book website <http://www.whfreeman.com/stryer>

*Schedule (classes meet from 10:00 AM to 11:50):*

July 6	Ch. 1 Biochem, Evolving Science
July 7	Ch. 2 Protein Composition & Structure
July 8	Ch. 3 Exploring Proteins & Proteomes
July 9	Ch. 4 DNA, RNA, Genetic information
July 13	Ch. 6 Exploring Evolution & Bioinformatics
July 14	Ch. 7 Hemoglobin – a Protein in Action
July 15	Ch. 8 Enzymes, 11 Carbohydrates
July 16	Ch. 12 & 13 Lipids and Membranes, Channels & Pumps
July 20	<b>TEST 1 in ARC-103</b>
July 21	Ch. 14 Signal Transduction
July 22	Ch. 15 Metabolism -- cofactors, energy
July 23	Ch. 16 Glycolysis and Gluconeogenesis
July 27	Ch. 17 Citric Acid Cycle
July 28	Ch. 18 Mitochondria
July 29	Ch. 20 and 21 Pentose Phosphate and Glycogen
July 30	Ch. 22 Fatty Acid Metabolism
Aug. 3	<b>TEST 2 in ARC-103</b>
Aug. 4	Ch. 23-25 Urea Cycle, assorted "nitrogen metabolism"
Aug. 5	Ch. 5 Exploring Genes & Genomes
Aug. 6	Ch. 28 DNA Replication & Repair
Aug. 10	Ch. 29 RNA Synthesis and Processing
Aug. 11	Ch. 30 Protein Synthesis
Aug. 12	<i>reading day</i>
Aug. 13	<b>FINAL EXAM (Thursday) in ARC-103</b>

Examinations will be based on material presented in lecture. You should therefore take careful notes in class. This should be reinforced and clarified by homework (optional) and reading assignments in the text.

If a bona fide illness or emergency cause you to miss an exam, please call Dr. Deis at 732-445-2814 or leave a message 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.

Review sessions will be conducted by Rose Marie Carotozzolo, [rosem120@yahoo.com](mailto:rosem120@yahoo.com)