

CHEM 3811-1: Biochemistry-Proteins

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Text: Lehninger Principles of Biochemistry, Fourth Edition, Nelson and Cox, Freeman and Company, 2004

Dates	Topics Covered	Reading Chapters
09/10/07	Introduction, Biological Foundations	1
09/12/07	Chemical Foundations	1
09/14/07	Physical Foundations	1
09/17/07	Water: Weak Interactions and Solvation	2
09/19/07	Water: Weak Acids and Bases	2
09/21/07	Water: Buffers and Hydrolysis	2
09/24/07	Amino Acids	3
09/26/07	Protein Primary Structure	3
09/28/07	Protein Purification	3
10/01/07	Protein Sequencing and Synthesis	3
10/03/07	Sequence Analysis	3
10/05/07	Exam 1 (in-class hour exam): covering 09/10/07-10/03/07	
10/08/07	Overview of Protein Structure	4
10/10/07	Secondary Structure	4
10/12/07	Tertiary Structure	4
10/15/07	Tertiary Structure/ Quaternary Structure	4
10/17/07	Protein Denaturation and Folding	4
10/19/07	Assisted Protein Folding and Degradation	4
10/22/07	Protein Dynamics, Misfolding and Disease	4
10/24/07	Membrane Proteins	11.1
10/26/07	Protein Function: Myoglobin/Hemoglobin	5
10/29/07	Protein Function: Immune System	5
10/31/07	Protein Function: Actin, Myosin and Molecular Motors	5
11/02/07	Exam 2 (in class hour exam): covering 10/08/07-10/31/07	
11/05/07	Enzymes/ Introduction	6
11/07/07	How Enzymes Work	6
11/09/07	Enzyme Kinetics	6
11/12/07	Enzymatic Reactions	6
11/14/07	Regulatory Enzymes	6
11/16/07	Review and Questions	
11/18/07	Exam 3 (Final): comprehensive, 10:00 a.m.-11:50 a.m.	

Exams: Exam 1 and 2 are in-class, 1-hour exams, 125 points each. Exam 3 (Final) is 250 points.

Office Hours: Tuesday and Thursday 11:00 a.m.-noon or by appointment.