Lecture Schedule

Lecture	Topic	Textbook Chapter
1	Introduction to the Course; Foundations of Biochemistry	1
2	Physical and Chemical Properties of Water	2
3	Acids, Bases and Buffers; Diffusion and Osmosis	2
4	Amino Acids and Peptides	4
5	Peptide Sequencing	5
6	Protein Secondary Structure	6
7	Protein Tertiary Structure	
8	Protein Folding and Misfolding	6
9	Protein Purification	5
10	Protein Function: Fibrous Proteins	5
11	Protein Function: Allostery and Oxygen Transport	15
12	Thermodynamics of Living Systems	3
13	Thermodynamics of Living Systems	3
14	Enzymes: Fundamentals and Properties	13-14
15	Enzymes: Characterization and Kinetics	13-14
16	Enzymes: Mechanisms and Cofactors	13-14
17	Enzymes: Inhibition and Regulation	15
18	Carbohydrate Structure and Function	7
19	Carbohydrate Structure and Function	7
20	Carbohydrate Metabolism: Glycolysis	18
21	Carbohydrate Metabolism: Glycolysis	18
22	Chemistry and Function of Nucleic Acids	10-11
23	DNA Structure and Function	10-11
24	RNA structure and Function	10-11
25	Protein-Nucleic Acid Interactions	11
26	Lipids and Membrane Structure	8
27	Lipids and Membranes	9
28	Membrane Transport	9