BIO98 - JAN 2019

SUN	MON	TUE	WED	THU	FRI	SAT
06	07	80	09	10	11	12
	 Syllabus Expectations Success in class READ THE SYLLABUS & CLASS WEBSITE 		 Weak bonds Review from Chem; Pg 53-55 Water Pg 47-53 Functional groups Pg 12-16 Spontaneity of reactions Pg 21-25, 496-500 		 Reaction equilibrium Determining spontaneity Reaction coupling Pg 21-25, 496-500 	
13	14	15	16	17	18	19
	 Rate of reactions Pg 25-28 Enzymes and reaction rates Pg 190-196 		• Active sites, amino acids <i>Pg 75-85, 197-198</i>		• Primary, secondary and tertiary structure of proteins <i>Pg 96-97, 117-124, 130-140</i>	
20	21	22	23	24	25	26
	- HOLIDAY -		MID-TERM #1		 Quaternary structure, protein folding Pg 141-142, 144-147 Biological relevance of protein structure 	
27	28	29	30	31	1	2
	 Research in protein structures Have Chimera installed on you laptop, and download the .PDB files assigned to you 		• Protein isolation and purification: salt precipitation, chromatography techniques, immunopptn. Pg 89-92		 Separating proteins PAGE, 2D gelsand Westerns Sequencing proteins Pg 92-96 	

BIO98 - FEB 2019

SUN	MON	TUE	WED	THU	FRI	SAT
03	04	05	06	07	08	09
	• Online		• Online		• Online	
10	11	12	13	14	15	16
	 Enzyme kinetics: MM equation Pg 198-201 Biological relevance of the enzyme parameters Pg 201-204 		 Enzyme inhibitors Pg 206-210 Drug development and design Basic and applied research 		 Biological macromolecules – general principles, structure, functions Carbs: Pg 242-272 Lipids: Pg 361-381 Nucleic acids: Pg 279-285, 301-312 	
17	18	19	20	21	22	23
	- HOLIDAY -		 Biological macromolecules – general principles, structure, functions Carbs: Pg 242-272 Lipids: Pg 361-381 Nucleic acids: Pg 279-285, 301-312 Introduction to metabolism, and principles of regulation Pg 575-582 		 Glycolysis reactions Pg 534-538, 550-553 Gluconeogenesis reactions Pg 558-564 	
24	25	26	27	28	01	02
	MID-TERM #2		• Regulation of glycolysis and gluconeogenesis <i>Pg 589-597</i>		 Generation of AcCoA Regulation of PDH Pg 619-624 Citric Acid Cycle Pg 624-637 	

BIO98 - MAR 2019

SUN	MON	TUE	WED	THU	FRI	SAT
03	04	05	06	07	08	09
	 Citric Acid Cycle regulation <i>Pg 640-642</i> ETC – Part 1, the ETC <i>Pg 711-726</i>, <i>739-740</i> 		• ETC – Part 2, ATP Sythase Pg 728-739		• Photosynthesis Pg 755-776 Pg 780-798	
10	11	12	13	14	15	16
	MID-TERM #3		 β-oxidation of lipids Pg 649-661 Synthesis of lipids Pg 811-820 		• Starvation, diabetes, and regulation of lipid metabolism <i>Pg 661-664, 668-670,935-938</i>	
17	18	19	20	21	22	23
					FINAL	