

Chem 452: Biochemistry I - Fall 2012

Tentative Lecture & Exam Schedule

Date			Topics	Chapter
M	W	F		
Unit I: Introduction				
SEPTEMBER			Lecture 1 - Key Concepts In Biochemistry with a Focus on Nucleic Acids.	1
	5	7		
10	12			
Unit II: Proteins				
		14	Lecture 2 - Protein Composition and Structure	2
17	19	21		
Unit III: Proteins in Action				
24	26		Lecture 3 - Hemoglobin: A Case Study of Protein Structure-Function Relationships	7
		28	<i>Exam I</i>	<i>Units I & II</i>
OCTOBER			Lecture 3 - Hemoglobin: A Case Study of Protein Structure-Function Relationships (con'd)	7
1				
	3	5	Lecture 4 - Enzymes: Basic Concepts and Kinetics	8
8	10			
		12	Lecture 5 - Catalytic Strategies	9
15	17			
		19	Lecture 6 - Regulatory Strategies	10
22	24			
Unit IV: Carbohydrates and Lipids				
		26	Lecture 7 - Carbohydrates	11
29				
	31		<i>Exam II</i>	<i>Unit III</i>
NOVEMBER			Lecture 7 - Carbohydrates (con'd)	11
		2		
5	7	9	Lecture 8 - Lipids & Cell Membranes	12
Unit V: Biochemistry of Complex Systems				
12	14	16	Lecture 9 - Membrane Channels & Pumps	13
19	21		Lecture 10 - Signal Transduction Pathways and Sensory Systems	14 & 33
		25	<i>Thanksgiving Break</i>	
26	28		Lecture 10 - Signal Transduction Pathways and Sensory Systems (con'd)	14 & 33
DECEMBER			Lecture 11 - Molecular Motors	35
3	5			
		7	<i>Exam III</i>	<i>Unit IV & V</i>
10			Lecture 11 - Molecular Motors	35
	12		Lecture 12 - Epilogue	
		14	Review	
<i>Final Exam (TBA)</i>				<i>Units I-V</i>