

Biological Sciences 4087
Spring 2013

Date	Lecture	Topic	Chapter
1/15	1	Water	2
1/17	2	Amino acids, peptides, and proteins	3
1/22	3	Three-dimensional structure of proteins	4
1/24	4	Protein Function: Hemoglobin and IgG	5
1/29	5	Enzymes	6
1/31	6	Enzymes	6
2/5	7	Carbohydrates and glycobiology	7
2/7	8	Nucleotides, DNA metabolism	8, 25
2/14		EXAM I (lectures 1-7) 12:00 NOON-1:00 PM	
2/19	9	RNA metabolism	26
2/21	10	Protein metabolism	27
2/26	11	DNA-based information technologies	9
2/28	12	Lipids	10
3/5	13	Biological membranes and transport	11
3/7	14	Biosignaling	12
3/12	15	Bioenergetics and metabolism	13
3/14		EXAM II (lectures 8-14) 12:00 NOON -1:00 PM	
3/19	16	Glycolysis, gluconeogenesis, pentose-P _i	14, 15
3/21	17	Glycogen metabolism	15
3/26	18	Citric acid cycle	16
3/28	19	Fatty acid catabolism	17
4/9	20	Amino acid oxidation and the urea cycle	18
4/11	21	Oxidative Phosphorylation	19
4/16	22	Photophosphorylation and the Calvin cycle	19, 20
4/18		EXAM III (lectures 15-21) 12:00 NOON -1:00 PM	
4/23	23	Lipid biosynthesis	21
4/25	24	Biosynthesis of amino acids and nucleotides	22
4/30	25	Hormonal regulation of metabolism	23
5/2	26	Hormonal regulation of metabolism	23
5/6		FINAL EXAM 3:00 – 5:00 PM	