

BCH 5045
SECTIONS 3571, 6698, 5477
FALL 2009 SCHEDULE (SUBJECT TO CHANGE)

Week	Lectures	Topics	Readings (Chapters)	Quiz
Aug 24	1-4	Introduction, Cells, Organic Molecules, Thermodynamics, Water	1, 2	none
Aug 31	5-8	pH, Amino Acids, Peptide Bond, Protein Chemistry, Biosignaling	2, 3	Q-1
Sept 7	9-12	Protein Structure, Bonds, Protein Function, Conformation, Ligand Binding	4, 5, 12	Q-2
Sept 14	13-16	Enzyme Catalysis, Kinetics, Inhibition, Nucleotides, Nucleic Acids	6, 8	Q-3
Sept 21	Exam I for Lectures 1-16			E-1
Sept 21	17-19	DNA, DNA Technologies, Genome Sequences, Microarrays	8, 9	
Sept 28	21-24	Chromosomes, Topoisomerases, Nucleosomes, Replication, Repair	24, 25	Q-4
Oct 5	25-28	RNA Metabolism, Transcription, Processing, Genetic Code	26, 27	Q-5
Oct 12	29-32	Ribosomes, tRNA, Protein Synthesis, Targeting	27	Q-6
Oct 19	Exam II for Lectures 17-32			E-2
Oct 19	33-36	Gene Regulation, Transcription Factors, <i>Lac</i> , <i>Trp</i> Operon, <i>Gal</i> Regulon	28	-
Oct 26	37-40	Carbohydrates, Monosaccharides, Polysaccharides, Glycoproteins	7	Q-7
Nov 2	41-44	Glycolysis, Gluconeogenesis, coenzymes, PPP	14	Q-8
Nov 9	45-48	PDH, Citric Acid Cycle, Glyoxylate Cycle, Oxidative Phosphorylation	14, 16	Q-9
Nov 16	Exam III for Lectures 33-48			E-3
Nov 16	49-52	Citric Acid Cycle, Regulation, Photosynthesis, ATP Synthesis	19	-
Nov 23	No Lectures for Week of Nov 23rd, no quiz on Nov 30th			Q-10
Nov 30	53-56	Lipids, Fatty Acids, Phospholipids, Inositol Phosphates, Eicosanoids	10	none
Dec 7	57-60	Membranes, Solute Transport, Lipid Metabolism Metabolic Regulation	11, 21, 15	Q-11
Dec 14	Final Exam			

Exams I, II, III will be on Mondays Sept. 21, Oct. 19, and Nov. 16 online at the course Vista (WEBCT) website between the hours of 8:00 AM to 9:00 PM. Exams must be completed by 9:00 PM, otherwise answers will not be accepted by the system. Quizzes (10 minutes) will be taken online on each of the Mondays indicated above anytime between 9:00 AM and 9:00 PM, except September 7th, the quiz will be taken on Tuesday September 8th. The online Final Exam is scheduled for Monday December 14th between 8:00 AM and 9:00 PM.