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BIOC 380.01: Fundamentals of Biochemistry

Michele A. McGuirl *University of Montana - Missoula,* michele.mcguirl@umontana.edu

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Fundamentals of Biochemistry (BIOC 380) Fall 2001 MTWF at 10:10 in UH 210

Michele McGuirl Telephone: 243-4404

Office Hours: MW 11:10 am – noon, TH 10:10 am – noon Office SC204 Text: Nelson & Cox, Lehninger Principles of Biochemistry, 3rd Edition

Grading: Four hourly exams (100 points) and a comprehensive final exam (100 points). The best 4 scores will be added together to constitute 70% of your total grade. This means you do not have to take the final if you know you'll have an A after the first 4 exams! The remaining 30% of your grade will be based on homework assignments

Lectures will be given by a consortium of faculty. However, exams and homework assignments will be written by Professor McGuirl, with input from the lecturing faculty.

Date		Topic	Chapter		
September	4,5,7	Foundations of Biochemistry	1,2, and 3		
	10,11	Water	4		
	12,14	Amino Acids, Peptides, and Proteins	5		
	17,18	3-D Protein Structure	6		
	19,21	Protein Function	7		
	24,25,26	Enzymes	8		
September 2'	7 th Examinatio	on I 6 pm covering Chapters 1-7			
	28	Enzymes	8		
October	1,2	Carbohydrates	9		
	3,5	Nucleic Acids	10		
	8,9	Lipids	11		
	10,12	Membranes	12		
	15,16	Biosignaling	13		
	17	Principles of Metabolism	14		
October 18 th Examination II 6 pm covering Chapters 8-13					
	19	Principles of Metabolism	14		
	22,23,24,26	Glycolysis	15		
	29,30	Citric Acid Cycle	16		
	31	Fatty Acid Oxidation	17		
November	2	Amino Acid Oxidation	18		
	5,6,7	Oxidative Phosphorylation	19		
	9	Photosynthesis/Electron Transfer	19		
	12	Holiday			
	13	Photosynthesis/Electron Transfer	19		
	14	Carbohydrate Biosynthesis	20		
November 15 th Examination III 6 pm covering Chapters 14-19					
	16,19	Carbohydrate Biosynthesis	20		
	20	Lipid Biosynthesis	21		
	21-23	Holiday			

November	26	Lipid Biosynthesis	21	
	27,28	Biosynthesis of Amino Acids, etc	22	
	30	Regulation of Metabolism	23	
December	3,4	Regulation of Metabolism	23	
	5	Genes and Chromosomes	24	
	7,10	DNA Metabolism	25	
	11,12	RNA Metabolism	26	
December 13 th Examination IV 6 pm covering Chapters 20-26				
	14	Protein Synthesis	27	

Chapters 24-27 will be taught with an emphasis on health and disease.

The final exam will be given during exam week, December 17-21.