Fall 9-1-2001

BIOC 380.01: Fundamentals of Biochemistry

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

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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 27th Examination 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 18th 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 15th 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 13th	**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.