

MMBB 300/380
SURVEY and INTRODUCTORY BIOCHEMISTRY

Tentative Schedule - Fall 2008

MWF 7:30-8:20, Life Science 277; MMBB 380 also meets W 5:30 – 6:20 in same room

Instructor: Charles Burke, 164A Life Science; 885-2037 (NO MESSAGES)

cburke@uidaho.edu; office hours: MWF 8:30-10 AM or by appointment

Textbook: Nelson & Cox, A. Lehninger Principles of Biochemistry, 5th ed, 2008

<u>Date</u>	<u>Topic</u>
Aug. 25 M	Introduction; Cellular Organization, Biopolymers
27 W	Chemical Bonding; Properties of H ₂ O
27 W	Extra Hour: No class
29 F	pH & Buffers
Sept. 01 M	Labor Day (no class)
03 W	Carbon Chemistry
03 W	380 Extra Hour : pH and Buffers
05 F	Amino Acids
08 M	Amino Acids & Peptides
10 W	Electrophoresis of Proteins
10 W	380 Extra Hour: Amino acid & Protein Analysis
12 F	Protein Structure
15 M	Exam 1
17 W	Myoglobin
17 W	380 Extra Hour: Protein Folding
19 F	Hemoglobin
22 M	Special Topics on Protein Structure
24 W	Introduction to Enzymes & Kinetics
24 W	380 Extra Hour: Protein Purification
26 F	Enzyme Kinetics I
29 M	Enzyme Kinetics II
Oct. 01 W	Enzyme Kinetics III
01 W	Extra Hour Enzyme Kinetics
03 F	Catalysis I
06 M	Catalysis II
08 W	Catalysis III, regulation
08 W	380 Extra Hour: Antibodies
10 F	Exam 2
13 M	Cytoskeletal proteins
15 W	Molecular motors, transport
15 W	380 Extra Hour: Membrane Transport
17 F	Metabolism – An Overview

Oct. 20 M Carbohydrates
22 W Glycolysis I
22 W 380 Extra Hour: Metabolism and Energy Balance
24 F Glycolysis II

27 M Guconeogenesis & Pentose Phosphate Pathway
29 W Glycogen
29 W 380 Extra Hour: Isotopes in Biochemistry
31 F Exam 3

Nov. 3 M TCA/Citric Acid Cycle I
5 W TCA/Citric Acid Cycle II
5 W 380 extra hour: Urea Cycle
7 F Electron transport

10 M Electron transport; Oxidative phosphorylation
12 W Oxidative phosphorylation
12 W 380 Extra hour: Oxidation/Reduction
14 F Photosynthesis - light reaction

17 M Photosynthesis - light & dark reactions
19 W Exam 4
19 W 380 Extra Hour: Chemiosmotic Theory
21 F Lipids I – Nomenclature & behavior

24 through 28 Fall Recess

Dec. 1 M Lipids II – Catabolism
3 W Lipids III – Anabolism
3 W 380 Extra Hour: Isoprenoids
5 F Nucleic Acids I

8 M Nucleic Acids II
10 W Nucleic Acids III
10 W 380 Extra Hour: Expression Analysis
12 F TBD

19 F Exam 5 7:30-9:30 AM