CHEM 3801: BIOCHEMISTRY I  
Fall 2014 – SYLLABUS – TR 11 AM

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Honor Code: All students must comply with the honor code as stated in the AASU Catalog. No hats or hoodies are allowed worn during test and no bathroom breaks will be given.

Students must check their school email. I may use this as a simple way to communicate to the class.

***Cell phones (or similar electronic devices) must be turned off or placed on silent, not vibrate. They must be stored away and not kept on your desk. Looking at them to read messages, etc. distracts both myself and your classmates. ***

Laptop users (or similar device) must sit in the back of the classroom to minimize distractions to other students and overall are NOT recommended for note taking.

Students are responsible for everything presented in lecture and URGED to supplement the lecture material by using the book. It is the responsibility of the student to obtain the material covered during a missed lecture, thus notes will not be given from the instructor. This course requires a lot of memorization—structures, common names and abbreviations for biomolecules, enzyme names, enzyme mechanisms etc. It is a VERY good idea to prepare flash cards of needed items.

Grading Procedure and Scale:

(4) In-class Exams (100 pts each)
(1) Cumulative Take Home Exam (75 pts)
(1) ACS Biochemistry Final Exam (75 pts)

90-100 A
80-90 B
70-80 C
60-70 D
below 60 F

Tentative Exam Schedule (schedule subject to change)

Exam 1 – Feb 6th
Exam 2 – March 6th
Exam 3 – April 8th
Exam 4 – May 1st (Take home distributed to class)
Cumulative Take Home Final Due – Wed May 7th - NOON (No exceptions!)
ACS Final – Tuesday May 13th – NOON – 2 PM
Schedule
(This is a rolling schedule that is subject to change)

Chapter 1, 2, 3: Chemistry/Biology Review
(I will cover Chapter 1-3 very briefly; however, you must read them on your own to be up to speed for the rest of the course. All material from these chapters is fair game for the first exam)

Chapter 4: Thermodynamics
Chapter 5a: Amino Acids, peptides, and proteins
Chapter 5b: Enzymes: Structure and Function
Chapter 7: Carbohydrates
Chapter 11: Lipids and Membranes
Chapter 6a: Enzyme – Kinetics and Specificity
Chapter 6b: Enzyme Mechanisms and Regulation
Chapter 8a: Metabolism Overview, Vitamins and Glycolysis
Chapter 9: Tricarboxylic Acid Cycle
Chapter 10: Electron Transport and Oxidative Phosphorylation
Chapter 8b: Gluconeogenesis, Glycogen Metabolism and Pentose Phosphate Pathway
Chapter 12: Fatty Acid Catabolism and Lipid Biosynthesis
Chapter 13: Photosynthesis
Chapter 14: Nitrogen Metabolism