

CHEMISTRY 430
INTRODUCTION TO BIOLOGICAL CHEMISTRY

Fall 2009
Chapman 211
Tues. Thurs. 12:30-1:45

Prerequisites: Chem 262 or 262H
Chem 262L or 263L
Biology 101

It is an Honor Code Violation to be enrolled in a course lacking the proper pre- or co-requisites.

Instructor: Linda L. Spremulli
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Office Hours: Wednesday, 2-3 pm or by appointment (e-mail contact preferred)

Text: *Biochemistry*, 6th Edition, Campbell and Farrell. Students are encouraged to read the material in the text and to solve the suggested problems at the end of each chapter. Additional problems will be given out occasionally for extra practice.

Grading: There are three hour exams and a final exam. You must take the Final Exam. You may take all of the three hour exams or only two of them. If you take all three of the hour exams, the lowest grade of **these three will be dropped. If you decide to take only 2 of these 3 parts, both grades will be counted.** Each exam counts for 30% of your grade. The final will count for 40% of your final grade.

Examination Schedule:

Exam I	Thursday, Sept. 17
Exam II	Thursday, Oct. 15
Exam III	Thursday, Nov. 19
Final Exam	Friday, Dec. 18 at 12 noon (note the time of the final cannot be changed without permission of the Dean so plan your winter break accordingly.)

THERE WILL BE NO MAKE-UP EXAMINATIONS. YOU GET A FREE DROP TO USE FOR EMERGENCIES INCLUDING ILLNESS AND FAMILY PROBLEMS

Honor Code:

Policy adopted by the faculty of the Department of Chemistry on September 9, 1977.

ASince all graded work (including homework to be collected, quizzes, papers, mid-term examinations, final examinations, research proposals, laboratory results and reports, etc.) may be used in the determination of academic progress, no collaboration on this work is permitted unless the instructor explicitly indicates that some specific degree of collaboration is allowed. This statement is not intended to discourage students from studying together or working together on assignments which are not to be collected.@

Tentative Lecture Schedule Chem 430

Fall 2009

Date	Topic	Reading Assignments
August 25	Introduction and Properties of Water	Chapters 1 and 2
Aug. 27/Sept. 1	Amino Acids and Peptides	Chapter 3
Sept. 1/Sept. 3	Structure of Proteins	Chapter 4
Sept. 3/Sept. 8	Characterization of Proteins	Chapter 5
Sept. 10/Sept. 15	Enzymes and Enzyme Kinetics	Chapter 6
Sept. 17	EXAM I	
Sept. 22/Sept. 24	Enzyme Mechanisms	Chapter 7
Sept. 29	Lipids and Membranes	Chapter 8
Oct. 1	Introduction to Metabolism	Chapter 15
Oct. 6	Carbohydrates	Chapter 16
Oct. 8/Oct. 13	Glycolysis	Chapters 17
Oct. 15	EXAM II	
Oct. 20/Oct. 27	Glycogen/Control Metabolism	Chapter 18
Oct. 27/Oct. 29	Citric Acid Cycle	Chapter 19
Nov. 3	Oxidative Phosphorylation	Chapter 20
Nov. 5	Nucleic Acid Structure	Chapter 9
Nov. 10/Nov. 12	DNA Replication	Chapter 10
Nov. 19	EXAM III	
Nov. 17/Nov. 24	Transcription	Chapter 11
Dec. 1/Dec. 3/Dec. 8	Genetic Code/Protein Synthesis	Chapter 12
Dec. 18	FINAL EXAM	