

Chemistry 431 B-01  
Spring, 2005

Biochemistry II  
MWF 9:30-10:20

#12798  
SH-C171

Instructor: Dr. Gregorio Santillan

Office Hours: Mon: 11-12 noon, Tues: 12:30-1:30pm, Wed & Fri: 11-12:30 pm

Room: PS 610 Tel (323) 343-2313

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Prerequisite: "C-" or better in Chemistry 431 A

Required Texts: Matthews, van Holde and Ahern (2000): Biochemistry (3rd Ed)

A website will be maintained containing the syllabus, selected notes, and keys to exams. This website can be accessed at [www.calstatela.edu/dept/chem/05spring/431b](http://www.calstatela.edu/dept/chem/05spring/431b)

Online resources: <http://awlonline.com/mathews/> (Use this site for self testing.)

Other possible useful biochemistry-related links:

<http://bob.usuf2.usuhs.mil/biochem/exams/exams.html>

Course objectives: This is the second quarter of a yearlong series in biochemistry. The topics covered this quarter include: enzymes, bioenergetics, respiration, and the major metabolic pathways for the breakdown of carbohydrates & fatty acids. Carbohydrate biosynthesis & photosynthesis is also covered.

Grades for the course will be based on a total of 100 points distributed as follows:

First midterm exam, Friday, April 25, 2005 (Chapts 11-13) 125 points

Second midterm exam, Wednesday, May 14, 2005 (Chapts 14-16) 125 points

Weekly quizzes (9 quizzes @ 5 pts each; lowest is dropped) 40 points

Final Exam, June 8, 2005, 8-10:30 am (Chapts 11-18) 210 points

500 points

Letter grades will be assigned based on the following approximate scale. The "+" or "-" grades will be used sparingly. The following will be guaranteed however: 90%+ = "A", 80%+ = "B", 60%+ = "C", 50%+ = D

No make up exams or make up quizzes are given. Absences are to be avoided at all costs. Emergencies must be documented and verifiable. Being unprepared for an exam is not considered an emergency. Anticipated problems in test taking should be discussed with the instructor before the exam not after.

5-point quizzes are given every week (each is worth 1 percent of your final score for the course). Students are required to turn in a blue book by the end of week#1 to take the quiz. Unless the material for the quiz is specified, it will include the material discussed after the last quiz and key points on the topic at hand. It is a good idea to be very familiar with the homework due that week. Unless otherwise specified by the instructor, the quiz dates are Apr 6,13,20,29, May 4,11,18,25, June 3.

The tentative and approximate schedule for the quarter is given below:

<b>Week</b>	<b>Main topic</b>	<b>Chapter</b>	<b>Homework (usually not collected):</b>
1	Enzymes	11	<b>11:</b> 1,3,8, 9,12,15,16,23
2	Enzymes/Intro to Metabolism	11,12	<b>12:</b> 1-7,12
3	Carbohyd. Metab. I: Glycolysis	13	<b>13:</b> 1-3, 5, 7,9,12,14
4	Krebs Cycle	14	<b>14 :</b> 3,4,7, 9 , 11, 12, 17
5	<b>Test #1.</b> (4/25) / Pentose phosphate pathway	14	<b>14:</b> 1,2,6,13, 16, 19
6	Oxidative Phosphorylation	15	<b>15:</b> ( to be announced )
7	CHO.Metab.I:Gluc'gen.	16	<b>16:</b> ( to be announced )
8	Photosynthesis / <b>Test#2</b> (5/20)	17	<b>17:</b> ( to be announced )
9	Lipid metabolism I:	18	<b>18:</b> ( to be announced )
10	Lipid metabolism II.	19	<b>19:</b> ( to be announced )

**Final exam, Wed, June 8, 2005 (8-10:30 am)**

(coverage is cumulative)