

BCHS3304: General Biochemistry I, Spring 2011

Section 10677

11:30 AM - 1:00 PM Tuesdays /Thursdays SEC 101

Instructor: **Dr. H.J. Yeo, 448 HSC**

Phone: 713-743-8377 (hyeo@uh.edu)

Office hours: Tu. & Th. 1:30 – 2:30 PM (or by appointment) Jan. 18 – May 13

Course Objectives: Upon completion of this course, students should be able to:

1. Understand the fundamentals of biochemistry.
2. Acquire a sufficient background for studying more advanced biochemistry topics.
3. Be familiar with basic biochemistry laboratory techniques / calculation.
4. Develop the ability to think scientifically and evaluate information critically.

Required Prerequisite Course: Chem 3331 *Organic Chemistry*

Required Textbooks: (1) Voet, D., Voet, J., and Pratt, C.W.

Fundamentals of Biochemistry (3rd Edition)

(2) Uzman, Eichberg, Widger, Voet, Voet, and Pratt (3rd Edition)

Student Companion to Accompany Fundamentals of Biochemistry

Exams: 3 Mid-term exams and the **Final Exam** will be based on lecture material, assigned textbook reading, study exercises, and homework. All students are expected to take all exams. Exams are closed book. Calculators and pencils should be brought to the exams.

Photo ID cards will be required on exam days.

Exam materials will be numbered and must be turned in to the instructor at the end of the test period to receive credit for the exam.

Note that the instructor will **NOT** answer questions or provide solutions to exams from previous semesters. ****No make-up exams will be given.*

Important Notes!!

All students must take the final exam to complete the course. Additionally, the lowest mid-term exam score will be substituted by the comprehensive final exam score if applicable, and as long as each mid-term exam is completed. This policy recognizes the fact that you may perform poorly on one exam for any number of reasons, but if you demonstrate that you know the material on the comprehensive Final Exam, then I will give you credit for the job well done.

Drop policy: Students who have not turned in any work (exams) and have not stated their intention to remain in the class *will be dropped* from the mid-term class rolls. Students may not drop the course after Tue. April 5.

Homework: Homework will be assigned from the textbook, Student Companion manual, and other materials. Some of this homework material will not be covered during the lecture, but can only be learned by completing the assignment. Homework will **NOT** be collected or graded. However, exams will be based in part on the assigned homework.

Class Web Site & Bulletin Board: Exam scores and other useful information will be posted on the **bulletin board near 402B HSC**. Exam Answer Keys will not be posted. The syllabus, Lectures #1-28, and other vital course information may be found on the Web at:

<http://bchs.uh.edu/~yeo/lecture.html>

BCHS 3304 Lecture Schedule – Spring 2011
Section 10677

Lect # (Date)	Chapter	Lecture Topics / Handout Distribution
1 (1/18) T	1	Introduction / Foundations of Biochemistry / Homework # 1 distribution
2 (1/20) Th	1	Units and Thermodynamics
3 (1/25) T	2	Water / Homework # 2 distribution
4 (1/27) Th	2	Acids and Bases, Amino acids
5 (2/1) T	4	Amino acids
(2/2)	<i>Last day to drop a course or withdraw without receiving a grade</i>	
6 (2/3) Th	5	Proteins: Primary Structure
7 (2/8) T	5	Proteins: Primary Structure, Evolution, and Analysis / Review for Exam I
8 (2/10) Th	1,2,4,5	Exam I (Covers: Lecture 1-7 / Ch# 1, 2, 4, 5 / HW# 1&2)
9 (2/15) T	5	Protein purification / Homework # 3 distribution
10 (2/17) Th	6	Proteins: 3D Structure
11 (2/22) T	6	Proteins: 3D Structure / Protein stability & folding
12 (2/24) Th	7	Protein Function / Homework # 4 distribution
(2/25)	<i>End of regular filing period to apply online for graduation</i>	
13 (3/1) T	7	Protein Function
14 (3/3) Th	11	Enzymes
15 (3/8) T	11	Enzymes / Review for Exam II
16 (3/10) Th	5,6,7,11	Exam II (Covers: Lecture 9-15 / Ch# 5, 6, 7, 11/ HW# 3&4)
3/14/11 – 3/19/11	Spring Break	
17 (3/22) T	12	Enzyme Kinetics / Homework # 5 distribution
18 (3/24) Th	12	Enzyme Kinetics
19 (3/29) T	14	Metabolism
20 (3/31) Th	14 & 8	Metabolism / Sugars / Homework # 6 distribution
21 (4/5) T	8 & 15	Sugars / Glycolysis
(4/5)	<i>Last day to drop a course or withdraw with a "W"</i>	
22 (4/7) Th	15	Glycolysis
23 (4/12) T	15	Glycolysis / Review for Exam III
24 (4/14) Th	8,12,14,15	Exam III (Covers: Lecture 17-23, Ch# 8, 12,14, 15 / HW# 5&6)
25 (4/19) T	16	Gluconeogenesis
26 (4/21) Th	16 & 17	Gluconeogenesis / Citric Acid Cycle
27 (4/26) T	17	Citric Acid Cycle
28 (4/28) Th	17	Citric Acid Cycle / Review for the final Exam
Final Exam 5/10 Tuesday; 11 AM – 2 PM (Section 10677)		

Lecture schedule and topics are subject to change and will be announced during the class.