

## **BCHS3304: General Biochemistry I, Fall 2009**

**Section 21734, 11:30 AM – 1:00 PM Tuesday/Thursday 102 SW**

**Instructor:** Dr. G.B. Legge, 406 HSC  
Phone: 713-743-8380 ([glegge@uh.edu](mailto:glegge@uh.edu))  
**Office hours:** Tuesday & Thursday 1:00 PM – 2:00 PM  
(or by appointment)

**Required Prerequisite Course:** Chem 3331 *Organic Chemistry*

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

*Fundamentals of Biochemistry: Life at the Molecular Level (3<sup>rd</sup> Edition) ISBN 978-0-470-12930-2*

(2) Uzman, Eichberg, Widger, Voet, Voet, and Pratt

*Student Companion to Accompany Fundamentals of Biochemistry (3<sup>rd</sup> Edition) ISBN 978-0-470-22842-5*

**Exams:** Mid-term and the Comprehensive Exams 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 must be brought to the exams and quizzes.**

**Photo ID cards will be required on exam days.**

You must take Exams in the same class period in which you are registered (this section period only).

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.

The Final Exam will be comprehensive (covers entire course).

Exam grades *may* be curved, with everyone receiving the same curve (points).

Note that the instructor will **NOT** answer questions or provide solutions to exams from previous semesters.

**\*\*\*No make-up exams will be given.**

**Drop policy:** Students who have not completed the first Mid-term exam and lack a valid excuse and have not stated their intention to remain in the class *may be dropped* from the mid-term class rolls. Students may drop any time during the eligibility period Sept 8<sup>th</sup>-Nov 4<sup>th</sup> and they will receive a grade of "W". Following this period, a student may not drop the course.

**Homework:** Five homework sets will be assigned from the textbook, Student Companion, and other materials. Only a selected subset of the assigned homework will be covered directly in the lectures. The best way to learn the subject is to work the assigned problems. Homework will NOT be collected or graded. However, Mid-term Exams and the Comprehensive Final Exam will be based in part on the assigned homework. Answers to the homework problems can be found on the course web page, at the back of the textbook or in the Student Companion.

**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://www.bchs.uh.edu/~glegge/teaching/>

### **Grade Structure**

<b>Mid-term Exam I</b> Thursday, September 24	<b>20 %</b>
<b>Mid-term Exam II</b> Thursday, October 22	<b>20 %</b>
<b>Mid-term Exam III</b> Thursday, November 24	<b>20 %</b>
<b>Required Comprehensive Final Exam Tuesday December 15, 11:00 AM – 2:00 PM</b>	<b>40 %</b>
<b>Total Points Possible for the Semester:</b>	<b>100 %.</b>

*All students must take the final exam to complete the course. Additionally, the lowest mid-term exam score will be substituted by the comprehensive exam score if applicable, and as long as each mid-term exam is completed. A missed mid-term exam will NOT be substituted by the comprehensive examination result; i.e. this policy will not replace missed exams. 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 the "benefit of the doubt".*

**Disabled Students:** The University of Houston adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with disabilities. Whenever possible, and in accordance with 504/ADA guidelines, we will attempt to provide reasonable academic accommodations to students who request and require them. Please register with the Center for Students with Disabilities (713-743-5400) and contact the instructor after registration.

3304 Lecture Schedule – Fall 2009

Lect. # (Date)	Chapter	Lecture Topics / Handout Distribution	Lecturer
1 (8/25) T	1	Foundations of Biochemistry / Homework # 1 & 2 distribution	Legge
2 (8/27) Th	1	Units and Thermodynamics	Legge
3 (9/01) T	2	Molecules and Water	Legge
4 (9/03) Th	2	Acids and Bases	Legge
(9/08)	<i>Last day to drop a course or withdraw without receiving a grade</i>		
5 (9/08) T	4	Amino Acids	Legge
6 (9/10) Th	5	Proteins: Primary Structure	Legge
7 (9/15) T	5	Proteins: Evolution, and Analysis	Legge
8 (9/17) Th	5-6	Protein Purification & 3D-Structure	Legge
(9/18)	<i>Last day for filing application for graduation</i>		
9 (9/22) T	1-5	Exam I Review/ Homework # 3 & 4 distribution	Legge
<b>10 (9/24) Th</b>	<b>Mid-term Exam #1: Lectures 1-8, Homework # 1-2, Chap. 1, 2, 4, 5</b>		
11 (9/29) T	6	Proteins: 3D-Structure	Briggs
12 (10/01) Th	7	Protein Function	Briggs
13 (10/06) T	7	Protein Function	Briggs
14 (10/08) Th	11	Enzymes	Briggs
15 (10/13) T	11	Enzymes	Briggs
16 (10/15) Th	12	Enzyme Kinetics	Legge
17 (10/20) T	6-12	Exam II Review / Homework # 5 distribution	Legge
<b>18 (10/22) Th</b>	<b>Mid-term Exam #2: Lectures 8-17, Homework # 3-4, Chap. 6,7, 11, 12</b>		
19 (10/27) T	13	Metabolism	Legge
20 (10/29) Th	8	Sugars	Legge
21 (11/03) T	14	Glycolysis	Legge
(11/04)	<i>Last day to drop a course or withdraw (before 5PM).</i>		
22 (11/05) Th	14	Glycolysis II	Legge
23 (11/10) T	14/15	Glycolysis III / Gluconeogenesis	Legge
24 (11/12) Th	15/16	Gluconeogenesis / Citric Acid Cycle I	Legge
25 (11/17) T	16	Citric Acid Cycle II	Legge
26 (11/19) Th	All	Exam III Review	Legge
<b>27 (11/24) Th</b>	<b>Mid-term Exam #3: Lectures 19-26, Homework # 5, Chap. 8, 13, 14, 15, 16</b>		
(11/26) Th	<i>Thanksgiving Holiday (no class)</i>		
28 (12/01) T	16	Pentose Phosphate Pathway	Legge
29 (12/03) Th	All	Comprehensive Exam Review	Legge
<b>Comprehensive Final Exam: Section 21734 Tuesday, December 15, 11 AM – 2 PM (102 SW)</b>			

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