

Syllabus: Biochemistry I, Chem-141, Summer 2016

Instructor: Dr. Ram Subramaniam
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Office Hours: Email for appointment

Class Meeting: MWF- 10:20 a.m. to 12:30 p.m., *Class Room:* Lucas 206

Text Book: Lehninger, Principles of Biochemistry, David L. Nelson and Michael M. Cox, Fifth Edition, W.H. Freeman and Company, New York.

Course Content: We will start with a brief review of intermolecular forces as they pertain to biological molecules. Following this, we will study in detail various structural and functional aspects of amino acids, proteins, enzymes, carbohydrates, lipids and biological membranes. We will then discuss some general themes to metabolism and discuss in detail two metabolic pathways: glycolysis and citric acid cycle.

Academic Honesty: In this class you are expected to do all the work associated with any of the graded assignments (quizzes, exams etc.) on your own. Unauthorized consultation in any form is strictly prohibited and may result in failure in the course. For more information on academic integrity please refer to:

<http://www.scu.edu/academics/bulletins/undergraduate/Academic-Integrity.cfm>

Disability Accommodation Policy: To request academic accommodations for a disability, students must contact Disability Resources located in The Drahmman Center in Benson, room 214, (408) 554-4111; TTY (408) 554-5445. Students must provide documentation of a disability to Disability Resources prior to receiving accommodations. For more details on how to qualify for accommodations please refer to:

<http://www.scu.edu/advising/learning/disabilities/index.cfm>

Class Attendance Policy: You are required to attend all classes during the quarter. There will be no attendance points for your grade. But, some topics may be assigned for reading and not covered in class. It will be your responsibility to learn this material, as it will be included in the exams. It is not possible to schedule make-up exams due to the extremely rigorous structure of the quarter. The only situations that will be *considered* for a make up are: 1) Medical- in this case you are required to provide a note from your physician 2) Death in the family 3) Athletic events- if you are an athlete and will be away on a scheduled exam date participating in an athletic event representing the University.

Tentative Class Schedule: The following is a tentative schedule of topics to be discussed in each class. You are strongly encouraged to read the relevant sections from the text before coming to class.

Date	Topics	Chapter
6/17	Introduction, Water	2.1 to 2.5
6/20	Quiz 1, Amino Acids	3.1 to 3.4
6/22	Quiz 2, Proteins	4.1 to 4.4
6/24	Quiz 3, Protein Function	5.1 to 5.3
6/27	Quiz 4, Enzymes	6.1 to 6.5
6/29	Quiz 5, Enzymes Carbohydrates	6.1 to 6.5 7.1 to 7.4
7/1	Exam 1 Carbohydrates	2, 3, 4, 5, 6 7.1 to 7.4
7/4	Quiz 6, Nucleic Acids	8.1 to 8.4
7/6	Quiz 7, Lipids	10.1 to 10.4
7/8	Take home exercise	
7/11	Quiz 8, Membranes	11.1 to 11.3
7/13	Quiz 9, Glycolysis	14.1 to 14.3
7/15	Exam 2 Glycolysis	6, 7, 8, 9, 10 14.1 to 14.3
7/18	Quiz 10, TCA Cycle	16.1 to 16.4
7/20	TCA Cycle	16.1 to 16.4
7/22	Final	14, 16

Important Dates:

Evaluation:

<i>Date</i>	<i>Task</i>		
July 1 st	Exam 1	Exams Mid Term	2 × 150 = 300 points
July 4 th	Last date to withdraw from the class without a W	Final	1 × 150 = 150 points
July 15 th	Exam 2	Take Home	1 × 50 = 50 points
July 15 th	Last date to withdraw from the class		
July 22 nd	Final Exam	Total	500 points

Exams & Quizzes

The mid term exams will be held during the first 60 minutes of the class period. The questions will be composed of multiple choice, short answers, and critical thinking questions. The questions on the exams will be based on the class lecture. All the material covered in the lecture, with the exception of an occasional “FYI item”, will be on the exams. There will also be 10 quizzes, 15 points each. You will have 10-minutes to respond to the multiple-choice questions on the quiz.