

Syllabus: Biochemistry I, Chem-141, Summer 2011

Instructor: Dr. Ram Subramaniam

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Office Hours: MWF 4:40 to 5:40 p.m. Other times are available by appointment.

Class Meeting: MWF- 5:40 to 7:50 p.m., *Class Room:* DS 201

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 Drahnann 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, F	Water	2.1 to 2.5
6/20, M	Amino Acids	3.1 to 3.4
6/22, W	Proteins	4.1 to 4.4
6/24, F	Exam 1 Protein Function	2, 3, 4 5.1 to 5.3
6/27, M	Enzymes	6.1 to 6.5
6/29, W	Enzymes	6.1 to 6.5
7/1, F	Exam 2 Carbohydrates	5, 6 7.1 to 7.4
7/4, M	<i>No Class</i>	
7/6, W	Nucleic Acids	8.1 to 8.4
7/8, F	Exam 3 Lipids	7, 8 10.1 to 10.4
7/11, M	Membranes	11.1 to 11.3
7/13, W	Glycolysis	14.1 to 14.3
7/15, F	Exam 4 Glycolysis	10, 11 14.1 to 14.3
7/18, M	TCA Cycle	16.1 to 16.4
7/20, W	TCA Cycle	16.1 to 16.4
7/22, F	Final Exam	14, 16

Evaluation: There will be four 1-hour exams. Each exam is worth 100 points and will be comprised of a combination of short answer and multiple-choice questions as well as a critical thinking question. The final exam will be held on July 22nd. **IMPORTANT NOTE:** Other graded assignments such as written papers or take-home exams may be included at a later date as per the discretion of the instructor. If such assignments are included, detailed information will be provided at that time.

Important Dates:

Evaluation:

<i>Date</i>	<i>Task</i>
June 24 th	Exam 1
July 1 st	Exam 2
July 1 st	Last date to withdraw from the class without a W
July 8 th	Exam 3
July 15 th	Last date to withdraw from the class
July 15 th	Exam 4
July 22 nd	Final Exam

Exams Mid Term	4 × 100 = 400 points
Final	1 × 150 = 150 points
Total	500 points