

Biochemistry Lecture I

Summer session

May 30th - July 11th 2012

Class: M/W: 1:30 P.M. -4.30 P.M. (W-2-158)

Textbook: Berg J. M., Tymoczko J. L., Stryer L., Biochemistry, 7th edition, W. H. Freeman and Company, New York, 2012.

Prerequisite: Bio 111 and Chem 254 (or Chem 252+256). If you do not have this prerequisite, you will have trouble following this course and we do not allow students enroll in the class. Period.

Instructors: Dr. Manickam Sugumaran, Professor of Biology, U.Mass Boston, MA 02125

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Office Hours: Monday/Wednesday 11:00 a.m. -1:00 p.m. and by appointment

Course website:

<http://alpha.chem.umb.edu/chemistry/biochm383/>

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Homework: Selected practice problems may be assigned regularly during the class.

Absence policy and exams: Attendance to class is compulsory. Four hourly exams and a cumulative final exam are scheduled for the semester. The lowest score from the four hourly exams will be dropped. There are no make-up exams. Your missed hourly exam will be your dropped exam.

Grading:

	%	Grade
The final grade is based on the three best hourly exams (3X100 points total), and the final exam (200 points total). The grade equivalences are as follows: <i>Points Earned</i>		
500-450	>90	A
449-430	>86	A-
429-410	>82	B+
409-390	>78	B
389-370	>74	B-
369-350	>70	C+
349-330	>66	C
329-310	>62	C-
309-290	>58	D+
289-270	>54	D
269-250	>50	D-
Below 250	<50	F

Accommodations

The University of Massachusetts Boston is committed to providing reasonable academic accommodations for all students with disabilities. This syllabus is available in alternate format upon request. If you have a disability and feel you will need accommodations in this course, please contact the Ross Center for Disability Services, Campus Center, Upper Level, Room 211 at 617.287.7430. <http://www.umb.edu/academics/vpass/disability/> After registration with the Ross Center, a student should present and discuss the accommodations with the professor. Although a student can request accommodations at any time, we recommend that students inform the professor of the need for accommodations by the end of the Drop/Add period to ensure that accommodations are available for the entirety of the course.

Proposed class schedule: (subject to change, excluding exam dates)

Date	Topic	Chapters
May 30 th Wednesday classes begin		
May 30 Wednesday class 1	Introduction, Protein composition and structure	1, 2
May 31	Drop deadline	
June 4 Monday class 2	Exploring proteins, Nucleic acids	3, 4
June 5	Add/Change deadline	
June 6 Wednesday class 3	Examination 1. Exploring genes , Hemoglobin	5, 7
June 11 Monday Class 4	Enzymatic Catalysis, Catalytic strategy	8,9
June 13 Wednesday Class 5	Examination 2 Regulatory strategies Carbohydrates,	10,11
June 18 Monday Class 6	Holiday No classes	
June 20 Wednesday Class 7	Examination 3. Lipids and cell Membranes, membrane channels	12, 13
June 22	Pass/Fail/Withdraw deadline	
June 25 Monday Class 8	Signal transduction, Introduction to Metabolism, Glycolysis	14, 15,16
June 27 Wednesday Class 9	Gluconeogenesis Citric Acid Cycle	16,17
July 2 Monday - Class 10	Examination 4, Electron transport and oxidative phosphorylation,	18
July 4 Wednesday Holiday		
July 9 Monday Class 11	Photosynthesis and Calvin cycle	19
July 11 Wednesday Class 12	FINAL EXAMINATION	

Code of Conduct and Academic Integrity

It is the expressed policy of the University that every aspect of academic life--not only formal coursework situations, but all relationships and interactions connected to the educational process--shall be conducted in an absolutely and uncompromisingly honest manner. The University presupposes that any submission of work for academic credit is the student's own and is in compliance with University policies, including its policies on appropriate citation and plagiarism. These policies are spelled out in the Code of Student Conduct. Students are required to adhere to the Code of Student Conduct, including requirements for academic honesty, as delineated in the University of Massachusetts Boston Graduate Catalogue and relevant program student handbook(s) http://www.umb.edu/life_on_campus/policies/code.