

BIOCHEMISTRY-PROTEINS
CHEM 3811-1
Autumn 2016

Instructor: Dr. Martin Margittai

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Text: Lehninger Principles of Biochemistry, Sixth Edition, Nelson and Cox, Freeman and Company, 2012

Lectures: 11-11:50 am, MWF, Olin 105

Office Hours: Thursday 11:00 am-noon, or by appointment.

Homework: Homework will be given out occasionally. These assignments will not be graded. However, it is highly recommended to work through the problems as similar ones may appear in the exams.

Exams: There are two 1-hour midterm exams during the quarter, plus a 2-hour cumulative final exam. Each exam is worth 100 points. Exam questions will be non-multiple choice.

If you miss a 1-hour midterm exam, then your final exam will be counted twice and replace the missed midterm exam. With one exception, **THERE WILL BE NO MAKEUP EXAMS**. The only exception to the no-makeup policy will be for members of a university team or group, e.g. athletic team or music group scheduled to be away from campus at the time of the exam. You must inform your instructor of this prior to the exam and make arrangements at that time for a makup exam.

Quizzes: There will be 7 quizzes. Each quiz will cover the material of the preceding week and be worth 20 points.

Group assignments: There will be 2 in-class group assignments. These assignments are worth 30 points each.

Grading:	midterm exams	200 points
	final exam	100 points
	quizzes	140 points
	group assignments	60 points

Dates	Topics Covered	Reading Chapters
09/12/16	Biochemistry Foundations 1	1
09/14/16	Biochemistry Foundations 2	1
09/16/16	Water: Weak Interactions and Solvation	2
09/19/16	Water: Weak Acids and Bases Quiz 1	2
09/21/16	Water: Buffers and Hydrolysis	2
09/23/16	Amino Acids	3
09/26/16	Protein Primary Structure Quiz 2	3
09/28/16	Protein Purification	3
09/30/16	Protein Sequencing and Synthesis	3
10/03/16	Overview of Protein Structure Quiz 3	4
10/05/16	Secondary Structure	4
10/07/16	Tertiary Structure	4
10/10/16	Exam 1	
10/12/16	Tertiary Structure/ Quaternary Structure	4
10/14/16	Protein Denaturation and Folding	4
10/17/16	Assisted Protein Folding Quiz 4	4
10/19/16	Assisted Protein Folding and Degradation	4
10/21/16	Protein Dynamics, Misfolding, and Disease	4
10/24/16	Protein Function: Myoglobin Quiz 5	5
10/26/16	Protein Function: Hemoglobin	5
10/28/16	Protein Function: Immune System	5
10/31/16	Protein Function: Actin, Myosin Quiz 6	5
11/02/16	No Class	
11/04/16	How Enzymes Work	6
11/07/16	Exam 2	
11/09/16	Enzyme Kinetics 1	6
11/11/16	Enzyme Kinetics 2	6
11/14/16	Enzymatic Reactions 1 Quiz 7	6
11/16/16	Enzymatic Reactions 2	6
11/16/16	Review Session, Olin 205, 4:00 pm – 5:00 pm	
11/18/16	Regulatory Enzymes	6
11/19/16	Final Exam (comprehensive), 10:00 am – 11:50 am, Olin 105	