Protein Biochemistry (BIOL)

PREREQUISITE BIOL2230, BIOL2270, CHEM1212 (from old B.S. curriculum) or BIOL1108, BIOL3200, CHEM1212 (from new B.S. and B.A. curricula) or permission of the instructor

LAB NO EBOO Students must keep a research notebook. It can be a spiral bound notebook or any other type of composition notebook; binders are not allowed. The notebooks must have a table of contents on the first page. During each lab period you will include the date, purpose of the experiment, protocol you follow (fill in as you go along during lab; you cannot paste lab handouts in your notebook), results, and analysis of results. Notebooks are normally not perfectly neat (no recopying after lab). There is no printer in lab, so everyone should either be prepared to email themselves any spreadsheets or graphs or bring a flash drive with them to lab. Data analysis will occur (usually) in lab; bring a calculator to lab. You will be able to use your notebooks for the lab exams.

LEC RE EXAM The dates for the exams are included in the Tentative Class Schedule. Note, that these are TENTATIVE, therefore the professor reserves the right to adjust the dates of the exams. Three exams (excluding the final) will be given throughout the semester. Each exam will be worth 100 points and will consist of a variety of types of questions that will include (but aren't limited to) matching, multiple choice, labeling, fill in the blank, and short answer. During the exam all cell phones must be turned off. Exams will not be handed back.

It is the instructor's prerogative to accept (or not accept) an excuse for a missed exam; therefore, DO NOT MISS EXAMS! Make-up exams are available for students with approved reasons, but these exams will be more challenging than the original exam, and the format may also be different (i.e. an oral exam). Students must contact me via email on the day of the exam for approval (NO PHONE CALLS) and are required to make-up the exam within 2 days of the missed exam, except under extreme circumstances. The professor reserves the right to not approve a missed exam as well as to require documentation of the reason why the exam is missed. Only students with a University related excuse may take an exam early.

LAB EXAM Two lab exams (50 points each) will be given throughout the semester. These exams will test you over the practical side of protein biochemistry and what you did in lab. These will be open notebook (handouts cannot be used).

F NAL The final will be cumulative and worth 200 points. The date of the final is Wednesday, May 4

A E MEN	Exams (3 exams; 100 points each)	300 points
	Lab exams (2 exams; 50 points each)	100 points
	Journal Article Presentations	50 points
	Homework and other Assignments	~50 points
	(Graduate Student Paper)	(50 points)

ot- Points /Gr d te t dents

GRADE CALE For all students, grades will be based on the above assessments. The grading scale I will use is:

EN A E LEC RE C ED LE

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11 Introduction and Overview of course
13 Chapter 1: Amino Acids (pp. 5-20)
18 Amino Acid Structure (cont'd)
20 Chapter 2: Noncovalent Interactions (pp. 21-34)
27 Chapter 3: Structural Organization of Proteins (pp. 35-57)

Fe r ry

1 Structural Organization of Proteins (cont'd)
3 Catch-Up and Review
8 **E**
10 Chapter 4: Biosynthesis of Proteins Biosynthesis of Proteins (pp. 61-80)
15 Biosynthesis of Proteins Biosynthesis of Proteins (cont'd)
17 Chapter 5: Posttranslational Modifications Review (pp. 81-97)
22 Chapter 6: Protein Folding (pp. 101-121)
24 Chapter 7: Intracellular Sorting of Proteins (pp. 123-134)

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1 Intracellular Sorting of Proteins (cont'd)
3 Chapter 8: Protein Turnover (pp. 317-143)
8 **E** (This Exam may be pushed back to March 10)
10 Chapter 21: Enzymes (pp. 283- 311)
15 No class spring break
17 No class spring break
22 Enzymes (cont'd)
24 Chapter 22: Nucleic Acid-Binding Proteins (pp. 313-322)
Chapter 23: Cell Surface Receptors and Signaling (pp. 323-335)