

## **Protein Biochemistry (BIOL4800/6800)**

**PREREQUISITES:** BIOL1108, BIOL3200, CHEM1212 or permission of the instructor

**INSTRUCTOR:** Dr. Theresa Grove  
Office: BC 1099  
Office hours: Tuesday 2:00-4:00 p.m. or by appointment  
Email:

**LECTURE CONDUCT:**

- Arrive on time. If lateness becomes an issue, I will start locking the door at 8:05 a.m..
- Turn off cell phones during class and lab; there is no reason you should be texting or calling anyone.
- Don't talk during lecture; if you don't understand something or didn't hear something ask.
- Unless it's an emergency (and using your cell phone does not constitute an emergency) do not get up in

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.

<b>ASSESSMENT:</b>	Exams (3 exams + final)	500 points
	Lab exams (2 exams; 50 points each)	100 points
	Homework and other Assignments (Graduate Student Paper)	~50 points (50 points)
	<b>Total Points 650 (Graduate Students = 700)</b>	

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

A	90-100%
B	80-89
C	70-

## TENTATIVE LECTURE SCHEDULE

### January

- 14 Introduction and Overview of course
- 16 Amino Acids
- 21 Amino Acid Structure
- 23 Noncovalent Interactions
- 28 Noncovalent Interactions (cont'd)
- 30 Structural Organization of Proteins

### February

- 4 Structural Organization of Proteins (cont'd)
- 6 Catch-Up and Review
- 11 **Exam 1**
- 13 Biosynthesis of Proteins Biosynthesis of Proteins
- 18 Biosynthesis of Proteins Biosynthesis of Proteins (cont'd)
- 20 Posttranslational Modifications Review
- 25 Protein Folding
- 27 Membranes

### March

- 4 Intracellular Sorting of Proteins
- 6 Intracellular Sorting of Proteins (cont'd)
- 11 **Exam 2**
- 13 Chapter 8: Protein Turnover
- 18 No Class spring break
- 20 No Class spring break
- 25 Enzymes
- 27 Enzymes (cont'd)

### April

- 1 **Exam 3**
- 3 Other classes of proteins
- 8 Other classes of proteins (cont'd)
- 10 Control of Protein function
- 15 Control of Protein Function (cont'd)
- 17 Methods to Study Proteins
- 22 Methods to Study Proteins (cont'd)
- 24 Protein Diseases due to misfolding, miscleavage and missequence
- 29 Peptides and Proteins as Drugs

### May

- 1 Catch-Up and Review