CHEM 3811: Biochemistry – Proteins
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Week 1
1.1 Cellular foundations
1.2 Chemical foundations
1.3 Physical foundations
2.1 Weak interactions
2.2 Weak acids and Weak bases
2.4 Water
3.1 Amino acids
3.2 Peptides and Proteins
3.3 Working with proteins
3.4 Primary Structure
3.4 Sequence analysis

Week 2
4.1 Overview of protein structure
4.2 Secondary Structure
4.3 Tertiary Structure
4.3 Quaternary Structure
4.4 Protein Denaturation/Folding
5.1 Myoglobin/Hemoglobin
5.2 Immune System

Week 3
5.3 Actin, Myosin, and Molecular motors
6.1 Enzymes/Intro
6.2 How enzymes work
6.3 Enzyme Kinetics
6.4 Catalytic Strategies
6.5 Enzyme regulation

There will be 3 in-class assignments. The total value of these exercises is 120 points. Hour Exams: Three hour exams, each worth 100 points
Exam I: Friday, October 8, 2021
Exam II: Friday, November 5, 2021
Exam III: Friday, November 23, 2021
Total Points = 420 points