

25 March 2008 Protein Bioinformatics

PDF of lecture slides at course site:

<http://www.biostat.jhsph.edu/~iruczins/teaching/260.655/>

Suggested reading:

Biochemistry, Berg, Tymoczko, Stryer (or an equivalent biochem textbook)
Chapter 3 Protein Structure and Function

Structural Bioinformatics, Bourne, Weissig [60-74\$]
Chapters 1 and 2

Objectives.

1. Identify the 20 amino acids from structure representations (1 letter code)
2. Describe the physical properties of amino acids and how these lead to similarity
3. Explain pI and molecular weight calculations (ref. 2D gels)
4. Define the peptide bond and the mainchain Phi and Psi angles
5. Describe some amino acid post translational modifications