

By the end of this unit, students will be able to...

- Define polypeptide (or sub-unit).
- List 3 properties of amino acids that contribute to the shape and function of a protein.
- State how cysteine amino acids bond in a protein.
- Describe how function relates to shape in proteins.
- State the difference between hydrophilic and hydrophobic amino acids.
- List properties of oppositely-charge and similarly-charged amino acids.
- Describe the primary, secondary, tertiary, and quaternary structures of a protein.
- State how these four levels of organization change with mutations.
- Identify an alpha-helix and a beta-sheet.
- Transcribe and translate a DNA sequence into mRNA and then an amino acid chain.
- List and identify kinds of mutations.