Rubric for PDB Protein Structure Lab CHEM 4422   Total: 100 points

Item graded (max points)	Not passing	Barely passing	Passing	Very Good	Excellent	
Structure: ~~Drop off your structure on Friday before 4:30.~~ (30 points)	10	18	22	26	30	30 points: The following are present and complete. 1. All of the secondary structures are present 2. All of the secondary structures are in the correct configuration. 3. The important amino acids are added. 4. The scale of the model is indicated. 5. The chain is correctly oriented (amino terminus--> carboxy terminus)
Part I: Explain the significance of the added structural features in a short description of your model. Be sure to explain how the function of the protein is related to the structure. (30 points)	10	18	22	26	30	30 points: 1. The explanation is well organized and grammatically correct. 2. All of the added features are explained. 3. The structure of the protein is related to the function of the protein. 4. Both the structure and function are explained.
Part II: Summary of the chemistry of protein folding. (30 points)	10	18	22	26	30	30 points: All of the following are present, neat and complete: 1. The summary of protein folding is well organized and grammatically correct. There is an explanation and examples of: 2. hydrogen bonds, 3. hydrophobic forces, 4. salt bridges 5. Secondary structures are described
References (10 points)	5	6	7	8	10	10 points: All of the references are cited in the text and there is a full bibliography. Each reference has a title, author/publisher, date, page and volume. (Web pages have URL) There must be at least one reference from the literature.

Part I. Explain the significance of the added structural features in a short description of your model. Be sure to explain how the function of the protein is related to the structure.

Part II. Give a brief summary of the chemistry that drives protein folding.

References: Be sure to include at least one reference from the primary literature and cite all of the references in your text. Use the ACS style for citing references.