

102 Physical Geology Lab

Chapter 14: Structural Geology

Objectives:

1. Learn the differences between the various types of stress that occur within the earth.
2. Learn and understand the concepts of strike and dip
3. Learn to recognize the various types of geological structures including faults and folds
4. Develop 3-dimensional thinking with respect to geological structures

Part I: Perspective Drawings

Do problem **3 a, b, and d** (*not c*)

Do problem **4 a** (parts **1, and 2**) (*not part 3*)

Do problem **4 b** (parts **1 and 3**) (*not parts 2 or 4*)

Do problem **4 c** (parts **1, 2, and 3**) (*not part 4*)

Do problem **7 a, b**

Part II: Bed Thickness

Do problem **5 a, b, c**

Sketch this block diagram onto your own piece of paper. Considering your answer to the previous question, as well as the strike and dip symbols on the block diagram below, sketch what the grey bed will look like on the front of the block. Remember to make sure the grey bed stays the same thickness all the way around the fold.

