

BMD 330 and 334: Human Physiology
Chapter 1 Objectives

Introduction to Physiology

1. Define physiology
2. Describe the different levels of organization of the human body
 - a. Describe the 4 major classes of cells/tissues and their basic functions
 - b. Describe the organ systems and their basic functions
3. Describe the distribution of water and what constitutes the “internal environment”
 - a. Define total body water, intracellular fluid, extracellular fluid, plasma, and interstitial fluid.
4. Define homeostasis and explain its significance to the function of the body.
5. Describe feedback systems and explain how negative feedback helps maintain homeostasis.
6. Describe how the body maintains normal body temperature even when exposed to variable external temperatures.
7. Describe how the body adapts to exercise.