



**HONORS ANATOMY AND
PHYSIOLOGY
CHAPTER 1
THE HUMAN BODY:
AN ORIENTATION**

Chapter Preview - This chapter first defines and contrasts anatomy and physiology and discusses the levels of organization complexity in the human body. The needs and functional processes common to all living organisms are reviewed. Three essential concepts - complementarity of structure and function, hierarchy of structural organization, and homeostasis - will form the bedrock for the study of the human body and will provide the unifying threads for the topics in this course. The final section will present the language of anatomy - the terminology "tools" that are used to describe the body or its parts.

I. Overview of Anatomy and Physiology

- A. Introduction
- B. Topics of Anatomy
- C. Topics of Physiology

II. Discuss the Hierarchy of Structural Organization

- A. Levels of Structural Hierarchy
- B. Summary of Body Organ Systems

III. Maintenance of Life

- A. Functional Characteristics
- B. Survival Needs

IV. Homeostasis

- A. Introduction
- B. General Characteristics of Control Mechanisms
- C. Negative Feedback Mechanisms
- D. Positive Feedback Mechanisms
- E. Homeostatic Imbalance

V. The Language of Anatomy

- A. Anatomical Position and Directional Terms
- B. Regional Terms
- C. Body Planes and Sections
- D. Body Cavities and Membranes
- E. Abdominopelvic Regions and Quadrants

Prefix / Suffix Quiz dates:

September 9th – 1-25

September 17th – 26-50

October 3rd – 51-75

October 11th – 76-100

Chapter 1 Test – September 11th

Homework Assignments:

Read Chapter 1

Study for prefix and suffix quizzes

Complete packet – hand in day of the test