STUDY GUIDE: CHAPTER 1, THE HUMAN BODY: AN ORIENTATION

The student should be able to:

1. Explain why it is an advantage to have a strong understanding of one’s anatomy and physiology.

2. Describe the three essential concepts necessary to the understanding of the functional processes of a living organism.

An overview of Anatomy and Physiology: pages 1-3

1. Define anatomy, physiology and describe their subdivisions.

2. Explain the principle of complimentarity.

3. Define macroscopic (gross) anatomy, microscopic anatomy and explain their differences.

4. Explain how the study of physiology subdivided.

5. Explain why physiology often focuses on events at the cellular level.

Explain the principle of complimentarity of structure and function.

Levels of Structural Organization: page 3

1. In the proper order, list the different levels of structural organization that make up the human body and explain their relationships to one another.

2. List all eleven systems of the body and identify their main parts and describe the function of each system.

Maintaining Life: pages 4-8

Know the basic definition and have an understanding of what metabolism is and be able to give a basic definition. This section will be covered in depth in Physiology 101.

Homeostasis: pages 8-11

Know the basic definition and have an understanding of what homeostasis is and be able to give a basic definition. This section will be covered in depth in Physiology 101.

Language of Anatomy: pages 11-20

1. Describe what is meant by: “the anatomical position.”

2. Use the correct anatomical terms to describe body directions and the position of a one structure in relationship to the position of another structure.
3. Describe body regions using the correct anatomical terminology.

4. Give the proper names and describe the three body planes and explain what the view of each plane is called.

5. Name and locate the major body cavities, their subdivisions, their associated membranes.

6. Explain which major organs are in each cavity/subdivision.

7. Name and locate the four quadrants of the abdominopelvic cavity and name the major organs of each quadrant.

8. Let’s not worry about the nine regions of the abdominopelvic cavity. Read it over so you won’t be at a total loss if it should come up in latter studies.