# Anatomy & Physiology Exam 1 Study Guide

# Chapter 1: Core Principles

- Anatomy: study of the structure of body parts and their relation to one another
- Physiology: function of body parts
  - form follows function

#### What are the seven characteristics of life? (Now 8)

- · Homeostasis: maintain internal environment
- Organization: every organism is made up of at least 1 cell
- Metabolism: anabolism + catabolism
  - Living things obtain and use materials and energy
- Growth + development
  - Growth: increase in size
  - Development: cells divide and differentiate
- Adaptation: evolve over time
- Respond to stimuli: responding to environment
- Reproduction: sexual and asexual
- Universal genetic code: living things are based on DNA
  - O Genetic code is basically the same for all organisms

#### Describe the major structural levels of organization of the human body

- Chemical: many organelles make up a cell
- Cellular: many cells make up a tissue
- Tissue: many tissues make up an organ
- Organ: many organs make up an organ system
- Organ system: many organ systems make up a human body
- Organismal level

# **Technical Electrical Test Field Ii Study Guide**

**Craig T. Smith** 

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