








Final Exam Study Guide
 Anatomy and Physiology 1
 Dr. Surmacz
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Chapter 1: An Introduction to Anatomy and Physiology

- **Anatomy**
 - The study of body structure
- **Physiology**
 - The study of body function
- **A&P is important to understand because...**
 - Foundation for healthcare
 - Understand your own body
 - Understand diseases
- **Levels of organization**
 - **Chemical/Molecular (More in Chapter 2)**
 - The atom is the smallest stable unit of matter
 - **Cellular (More in Chapter 3)**
 - The cell is the smallest living unit
 - **Tissues (More in Chapter 4)**
 - Groups of cells working together and surrounding material
 - **4 Types**
 - Epithelial
 - Connective
 - Muscle
 - Nervous
 - **Organ**
 - Structure of 2 or more tissues that perform a particular function
 - **Organ System**
 - 2 or more organs that work together for a specific purpose
 - **Organism**
 - Individual living things
- **11 Organ Systems**
 - **Integumentary**
 - Protects against hazards
 - Regulates body temperature
 - Sends sensory information
 - **Skeletal**
 - Support and protection
 - Stores calcium
 - Forms blood cells
 - **Muscular**

Level of Organization	Explanation	Example
 Atomic Level	Atoms are defined as the smallest unit of an element that still maintains the property of that element.	Carbon, Hydrogen, Oxygen
 Molecular Level	Atoms combine to form molecules which combine similarly different properties than the atoms they contain.	Water (H ₂ O), Carbohydrates
 Cellular Level	Cells are the smallest unit of life. Cells are surrounded by a membrane on cell walls and in multicellular organisms often perform specific functions.	Muscle cell, Skin cell, Neuron
 Tissue Level	Tissues are groups of cells with similar functions.	Muscle, Epithelial, Connective
 Organ Level	Organs are two or more types of tissues that work together to complete a specific task.	Heart, Liver, Stomach
 Organ System Level	An organ system is group of organs that combine our more generalized set of functions.	Digestive System, Circulatory System
 Organismal Level	An organism has several organ systems that function together.	Human

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