

Final Exam Study Guide
 Anatomy and Physiology 1
 Dr. Surmacz
 Date of Exam: December 11, 2017

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
 Organ Level	Organs are groups of cells with similar functions.	Muscle, Epithelial, Connective
 Organ System Level	Organs are found in many systems of tissues that work together to complete a specific task.	Heart, Lungs, Stomach
 Organism Level	An organism is a group of organs that combine and work together to perform a set of functions.	Digestive System, Circulatory System
 Organismal Level	An organism has several organ systems that function together.	Human

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Ian Pickup



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Annual Register, 1907 *Catalogue ... and Announcements* University of Minnesota, 1905 **Register** University of Minnesota. Institute of Agriculture, Forestry, and Home Economics, 1912 **A Catalogue of the Officers and Students of Washington University, for the Academic Year ...** Washington University (Saint Louis, Mo.), 1920 Announcements for the Year ... Purdue University, 1909 Bulletin of Emory University, 1921 **Annual Catalogue** Washington University (Saint Louis, Mo.), 1909 **Catalog** Washington University (Saint Louis, Mo.). College of Liberal Arts, 1915 Catalogue of the University of Michigan University of Michigan, 1949 Announcements for the following year included in some vols
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