

ANATOMY and PHYSIOLOGY

"The study of **structure** and **function** of the body"

ANATOMY

- *Ana means "apart" Tomy means "to cut"*
- *The scientific discipline that investigates the **STRUCTURE** of the body*
- *Systemic Anatomy- by **SYSTEM**.*
- *Regional Anatomy- by **AREAS**.*
- *Surface Anatomy- external features*
- *Anatomical Imaging- involves the use of X-Ray, MRI, Ultrasound, etc.*

PHYSIOLOGY

- *The scientific discipline that deals with the processes or **FUNCTIONS** of living things*

Structural and Function Organizational of the Body

The Major Goals of Physiology

1. *To understand and predict the body's responses to stimuli*
2. *To understand how the body part works*

1. CHEMICAL LEVEL

- simplest level of the structural ladder
- includes atoms and molecules
- Ex: Deoxyribonucleic Acid (DNA) & Glucose

2. CELLULAR LEVEL

- basic structural and functional units of an organism that are composed of chemical.
- **CYTOLOGY**- study of the microscopic appearance of cell
- Ex: Muscle Cell, Nerve Cell, Epithelial Cell

3. TISSUE LEVEL

- group of cell that perform the same function
- **HISTOLOGY**- study of tissues
- **4 TYPES OF TISSUE**
- 1. Epithelial Tissue- covers body surface; lines hollow organs and cavities and forms glands.
- 2. Connective Tissue- connects, supports and protects body organs while distributing blood vessels to other tissue
- 3. Muscle Tissue- contracts to make body part move and generates heat
- 4. Nervous Tissue- carries information through nerve impulses

Anatomy And Physiology Chapter One

**Susan King Strasinger, Marjorie
Schaub Di Lorenzo**



Anatomy And Physiology Chapter One:

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