

THE HUMAN BODY: AN ORIENTATION

Anatomy

- study of the structure and shape of the body and its parts.
- Observation is used to see sizes and relationships of parts.
- Open up the body if studying the structure inside.

Physiology

- study of how the body and its parts work or function.

TOPICS OF ANATOMY

Gross Anatomy/ Macroscopic Anatomy

- large structures
 - Easily observable
- e.g. heart, lungs, and kidneys

- **Regional Anatomy** - all structures in a particular region of the body, such as the abdomen or leg, are examined at the same time.
- **Systemic Anatomy** - body structure is studied by system.
- **Surface Anatomy** - study of the internal structures as they relate to the overlying skin surface.

Microscopic Anatomy

- deals with small structures.
- Structures are too small to be seen with the naked eye.
- Cells and tissues can be viewed only with a microscope.
- **Cytology** - different cells of the body.
- **Histology** - study of tissues.

Developmental Anatomy

- traces structural changes that occur in the body throughout the lifespan.
- **Embryology** - developmental changes that occur before birth.

Pathological Anatomy

- studies structural changes caused by disease.

Radiographic Anatomy

- studies internal structures as visualized by x-ray images or specialized scanning procedures.

Molecular Biology

- structure of biological molecules is investigated.

TOPICS OF PHYSIOLOGY

Renal Physiology

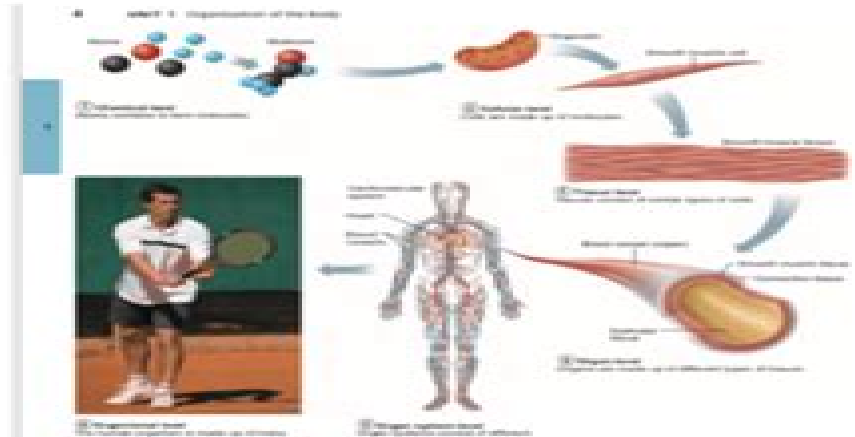
- kidney function and urine production.

Neurophysiology

- explains workings of the nervous system

Cardiovascular Physiology

- examines operation of the heart and blood vessels.



PRINCIPLE OF COMPLEMENTARY STRUCTURE AND FUNCTION

- Bones can support and protect body organs because they contain hard mineral deposits.
- Blood flows in one direction through the heart because the heart has valves that prevent backflow.

LEVELS OF STRUCTURAL ORGANIZATION

Chemical Level

- simplest level of structural hierarchy.
- Atoms combine to form molecules such as water and proteins.
- Molecules associate to form organelles.

Cellular Level

- all cells have some common functions.
- Simplest living creatures are single cells.

Tissue Level

- tissues are groups of similar cells that have a common function.
- Four basic types are epithelium, muscle, connective tissue, and nervous tissue.

Epithelium: covers the body surface and lines its cavities.

Muscle: Provides movement

Connective tissue: supports and protects body organs.

Nervous tissue: Provides a means of rapid internal communication by transmitting electrical impulses.

Organ Level

- organ is a discrete structure composed of at least two tissue types that performs a specific function for the body.

Organ System Level

Lecture Notes On Human Physiology

Findley,Ouchley



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Lecture Notes on Human Physiology, 1882 *Lecture Notes* Richard G. Pflanzner, 1994-02-01 *Physiology 58* Susan Wilson, 2016-07-26 A lab manual to be used in the Santa Rosa Junior College Physiology 58 class Introduction to Human Physiology This is an introductory course in human physiology organized around body systems and the theme of homeostasis The course is designed for the beginning student preparing for these health related fields vocational nursing radiologic technology or those with a general interest in the function of the human body This course will minimize bio chemical and quantitative details taught in a general physiology course e g PHYSIO 1 focusing on the fundamental concepts of physiology Not intended for nursing RN dental hygiene or physical therapy majors **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1987 **Human Anatomy and Physiology Lecture Notes**, 2004-05-24

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