# ANATOMY AND PHYSIOLOGY

#### THE HUMAN BODY - AN ORIENTATION

#### Anatomy

 Studies the structure of body parts and their relationships.

#### Physiology

Study of how the body and its parts work or function.

#### Pathophysiology

Extract invertase from Bayer's yeast

#### ANATOMY - LEVELS OF STUDY

#### Gross or Macroscopic Anatomy

- ⇒ Larger structures
- ⇒ Can be seen with the naked eye
- Approached of study: Regional and Systemic Anatomy

#### Surface Anatomy

 Study of internal structures as they relate to the overlying skin surface.

#### Microscopic Anatomy

- Structures cannot be seen with the naked eye
- Structures can only be viewed with a microscope
- Subdivisions include cytology and histology

#### **Developmental Anatomy**

- Traces structural changes that occur in the body throughout the life span.
- Embryology concerns developmental changes that occur before birth

#### LANGUAGE OF ANATOMY

- Special terminology is used to prevent misunderstanding
- Exact terms are used for
  - 1. Position
  - 2. Direction
  - 3. Regions
  - 4. Structures

#### Anatomical Position

- Person stands erect with feet together and eyes forward
- Palms face anteriorly with thumbs pointed away from the body
- Right and left always refers to the sides belonging to the person of specimen being viewed – never to the viewer.
- Note: Four legged animals have different anatomical position than humans
  - Their ventral is on the inferior side and dorsal in the superior side.
  - In humans, ventral and anterior is the same and so is dorsal and posterior.



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