

# Anatomy & Physiology

## Unit 1: Anatomical Language

- ⌘ Be able to define anatomy and physiology and when those terms are applicable to what we are learning in this class.
- ⌘ Be able to describe the difference between gross and microscopic anatomy.
- ⌘ Be able describe the organizational systems in the body from the chemical level to the Organismal level.
- ⌘ Be able to identify the difference between a necessary life function and a survival need.
- ⌘ Be able explain how homeostatic mechanisms work in both a positive and negative feedback loop.
- ⌘ Be able to identify when a body is in anatomical position, including a prone or supine orientation.
- ⌘ Be able to use directional terms to communicate a location in the body.
- ⌘ Be able to use the cavities, planes and abdominal regions to communicate a location on the body.
- ⌘ Be able to identify the most common regional terms on the body to increase accuracy in communicating a location on the body.

### **Key Terms:**

Anatomy

Physiology

Gross Anatomy

Microscopic Anatomy

Chemical Level

Cellular Level

Tissue Level

Organ Level

Organ System Level

Organismal Level

Nutrients

Oxygen

Water

Normal Body Temperature

Appropriate Atmospheric Temperature

Maintaining Boundaries

Movement

Responsiveness

Digestion

Metabolism

Excretion

Reproduction

Growth

Homeostasis/Homeostatic Imbalance

Receptor

Control Center

Effector

Afferent Pathway

Efferent Pathway

Negative Feedback

Positive Feedback

Stimulus/Response

## Anatomical Position

Supine  
Prone

## Contralateral

Superior

Cranial

Inferior

Caudal

Ventral

Anterior

Dorsal

Posterior

Medial

Lateral

Intermediate

Proximal

Distal

Superficial

Deep

Ipsilateral

Cephalic

Frontal

Orbital

Nasal

Oral

Mental

Cervical

Thoracic

Sternal

Axillary

Mammary

Abdominal

Umbilical

Pelvic

Inguinal

Pubic

Acromial

Antecubital

Olecranal

Antebrachial

Carpal

Pollex

Metacarpal

Femoral

Patellar

Popliteal

Crural

Sural

Peroneal

Tarsal

Calcaneal

Metatarsal

Digital

Hallux

Otic

Occipital

Scapular

Vertebral

Lumbar

Sacral

Gluteal

Palmar

Digital

Coxal

Oblique Plane

Sagittal Plane

Median Plane

Mid-Sagittal Plane

Parasagittal Plane

Frontal Plane

Coronal Plane

Transverse Plane

Horizontal Plane

Dorsal Body Cavity

Ventral Body Cavity

Cranial Cavity

Vertebral (Spinal) Cavity

Thoracic Cavity

Abdominopelvic Cavity

Abdominal Cavity

Pelvic Cavity

Right Upper Quadrant

Right Lower Quadrant

Left Upper Quadrant

Left Lower Quadrant

Umbilical Region

Epigastric Region

Hypogastric Region

Right Iliac Region (Inguinal)

Left Iliac Region (Inguinal)

Right Lumbar Region

Left Lumbar Region

Right Hypochondriac Region

Left Hypochondriac Region