

1/12/15

INTRODUCTION

I. SYLLABUS & COURSE POLICIES

II. BODY ORGANIZATION

- A. Chemical Level: atoms and molecules
- B. Cellular Level; **Cell**: basic structural and functional unit of life
→ living structure—has the ability to construct itself
- C. Tissue Level; **Tissue**: similar cells that come together perform a common function
→ 4 diff types of tissues
- D. Organ Level; **Organ**: 2 or more kinds of tissues integrated to perform specific functions
- E. Organ System Level; **Organ system**: organs having related functions
- F. Organismal Level; **Organism**: has several organ systems which work together to maintain life

Histology: study of tissues

III. PLANES OF REFERENCE & DESCRIPTIVE TERMINOLOGY

- A. Anatomical Position:
 - upright
 - feet parallel
 - eyes & palms forward
 - (looking at front of body)
- B. Planes of Reference: Imaginary lines or actual dissecting cuts (**sections**) which may be used to "section" the body or an organ.
 - 1. **Sagittal**: divides the body or organ into **unequal** right and left portions. (can use this term in regard to imaginary line or physical cut)
 - a. **midsagittal**: divides the body or organ into **equal** left and right HALVES

2. **Coronal (= Frontal) Plane**: divides the body or organ into anterior (front) and posterior (back) portions
→ coronal and frontal mean the same thing
3. **Transverse (= Horizontal, Cross-sectional) plane**: divides the body or organ into superior (top) and inferior (bottom) portions

C. Directional Terms for the Body: Terms are in table 1.2 on p. 12, (and fig 1.7 on p. 13) - LEARN THEM!!

Ex: Medial: closer to midline

Lateral: away from the midline

IV. BODY REGIONS

A. Cephalic Region or Head :

1. Facial Region

- a. Orbital – eye
- b. Nasal – nose
- c. Buccal –cheek
- d. Oral – mouth
- e. Mental –chin

2. Cranial Region –area covered by the scalp

B. Neck or Cervical Region (neck= **cervix**) [cervix means a narrowing]

C. Thorax or Thoracic Region (chest)

1. Pectoral Regions –left and right chest [pectoral means chest]

2. Mammary Regions (breasts) – sit atop pectoral regions

3. Sternal Region – between pectoral regions

4. Axillary Regions – armpits

D. Abdominopelvic Region

1. Abdominal Region - located between the diaphragm and the top of the hip bones
→ located below the diaphragm and above the top of the hips
2. Pelvic Region – between the hip bones

E. Upper Extremity

1. Deltoid Region - shoulder
2. Brachial Region – **arm**; shoulder to elbow [brachi means arm]

3. Cubital (front = Antecubital) Region - elbow region
4. Antebrachial Region - forearm

5. Carpal Region - the "wrist"
6. Hand (Manus Region)
 - a. Palmar – front of hand
 - b. Dorsum – back of the hand

F. Lower Extremity

1. Femoral Region – thigh

2. Knee:
 - a. Patellar Region - front surface of knee
 - b. Popliteal Region – back of the knee

3. Crural Region - **leg**, from knee to ankle
4. Tarsal Region – ankle

5. Foot (Pedal Region)
 - a. Plantar - sole
 - b. Dorsum – top surface