LECTURE AND LAB SCHEDULE

1. INTRODUCTION TO ANATOMY
   a. Animal Development
   b. Neuralation
   c. Embryonic Stem Cells and Formation Systems
   d. Organ Systems and Tissues
   e. Anatomical Terms
      i. Anatomical position, Anatomical planes, Directional terms
      ii. Body regions, Body cavities and membranes and Organ Systems

2. TISSUES – Epithelia
   a. Histology
   b. Epithelial tissue
   c. Connective tissue

3. Integumentary System
   a. Skin and subcutaneous tissue
   b. Hair and nails
   c. Cell types and Function
   d. Cutaneous glands
   e. Skin disorders

4. Nervous System
   a. Neuralation
   b. Evolution
   c. Cell types
      i. Neural Glia
      ii. Neurons
   d. Areas of the Nervous System and function

5. Skeletal System
   a. Bone tissue - Histology of osseous tissues and evolution
   b. Bone development
   c. Bone disorders
   d. Skeleton – Axial and Appendicular
   e. Arthroses
   f. Articulations

6. The Muscular System
   a. Types and characteristics of muscular tissue and evolution
   b. Skeletal
      i. Metabolic Differentiation
      ii. Fascicular Arrangements
      iii. Nomenclature

7. Cardiovascular System
   a. Type of circulatory system
   b. Heart
      i. Evolution
      ii. Gross anatomy of the heart
   c. Vessels
d.
8. **The Respiratory System**
   a. Anatomy of the respiratory system and Evolution
   b. Respiratory disorders and Protection
   c. Animal differences
9. **The Renal System**
   a. Anatomy of the urinary system
   b. Anatomy of the Nephron and evolution
10. **The Digestive System**
    a. General Anatomy and Evolution
    b. The mouth through esophagus
    c. The stomach
    d. The liver, gallbladder and pancreas
    e. The small intestine
    f. The large intestine
11. **The Reproductive System**
    a. The male reproductive system
    b. The female reproductive system
    c. Analogous structures
12. **Endocrine System**
    a. The endocrine system.
    b. The Hypothalamus and Pituitary Gland
    c. The Pineal Gland
    d. The Thymus
    e. The Thyroid and Parathyroids
    f. The Exocrine Pancreas
    g. The Adrenal Glands
    h. The gonads
13. **Nervous Systems – Senses**
    a. Sense organs and Evolution
       i. Optics and Audition
       ii. Vestibular
       iii. Olfaction and Gustation