**OCEAN COUNTY COLLEGE BIOL 131 Human Anatomy**

**Department of Science and Physiology II**

**Instructor: Dr. Angel Camilo**

**Laboratory Practical I**

**The Endocrine System:**

1. Histology: Thyroid Gland

Parathyroid Gland

Thymus

Pineal

Pancreas (islets of Langerhans)

Pituitary (anterior and posterior)

Adrenal gland

Ovary (vesicular Graafian follicle)

Testis (interstitial cell, seminiferous tubules)

**The Cardiovascular system:**

1. Histology: Human Smear – RBC, Platelets, WBC (neutrophils, lymphocytes, monocytes, basophils, eosinophils)

Pathological hematology slides: ex Sickle Cell Disease

Vein and Artery (differentiate under low 10X magnification)

2. Understand: differential, hematocrit, blood typing (ABO and Rh)

3. Heart Structures: Models

1. External and Internal

1. Base and Apex

2. Auricle

3. Interventricular Sulcus and Septum

4. Superior and Inferior Vena Cava

5. Pulmonary Artery

6. Pulmonary Vein

7. Aorta-with brachiocephalic artery, left common carotid, left subclavin artery

8. AV Valves = Tricuspid and Bicuspid Valves

9. Semilunar Valves = Pulmonary Valve and Aortic Valve

10. Chordae Tendineae and Papillary Muscle

11. Right and Left Atria and Ventricle, Papillary Muscle

12. Great Cardiac Vein, Middle Cardiac Veins, Posterior Cardiac Vein

13. Right Coronary Artery, Marginal Artery, Posterior Interventricular Artery

14. Left Coronary Artery, Circumflex Artery, Anterior Interventricular Artery

15. Coronary Sinus