**Human Anatomy & Physiology II**

**Exam #1 Study Guide**

**Blood**

1. Know the different types of formed elements and the main characteristics of each.

2. Know the steps of erythropoiesis, leukopoiesis, and platelet formation. Know the cells of each step

and any description given about those cells in class.

3. Know blood stoppage mechanisms as discussed in class.

4. Know the names and descriptions of the blood disorders.

5. Be able to explain the basis behind blood typing, the different blood types, and the guidelines for

blood transfusions.

**Heart**

1. Know the layers of the heart’s covering.

2. Know the layers of the heart wall.

3. Know which veins enter into the right and left atria.

4. Know the 4 heart valves and where each is located.

5. Know where the main coronary arteries, their branches, and where each supplies blood to.

6. Be able to outline pulmonary & systemic circulation.

7. Be able to name and describe the steps of the cardiac cycle.

8. Know the components of the hearts conduction system and their characteristics.

9. Be able to describe the process of cardiac contraction starting at the SA node.

10. Be able to recognize the steps involved with AP conduction on cardiac muscle & autorhythmic

cells.

11. Understand the mechanisms the body uses to control cardiac output.

12. Know the parts and descriptions of an EKG.

13. Know the names and descriptions of the disorders that can affect the heart.

***This study guide covers the majority of information on the exam but not all of it. You are still responsible for any information that was covered in the notes but not put on this guide (intentionally or unintentionally). Good Luck and Study Hard!!***