

## **BIOL 1120: General Biology II Cardiovascular System Outline**

1. functions of and components of the cardiovascular system
2. composition of blood
3. 3 main types of blood cells (common and scientific names), numbers of each (compared to one another), functions, size of each (compared to one another), appearance, lifespan, where produced
4. average human blood volume and pH
5. composition of plasma
6. location of and function of hemoglobin
7. 5 main types of white blood cells, numbers of each (compared to one another), functions
8. anemia vs. leukemia vs. hemophilia (causes of each and type of blood cells generally involved)
9. 3 main types of blood vessels, structure and function of each
10. blood pressure (what does it mean and what are normal/abnormal values)
11. risk factors for cardiovascular disease
12. heart rate (what is normal and how does it change)
13. blood cholesterol levels (what is normal/abnormal)
14. hypertension vs. heart attack vs. stroke vs. aneurysm
15. 4 chambers of the heart
16. 4 heart valves (and location)
17. pathway of blood through the cardiovascular system
18. largest artery of the body
19. largest veins of the body
20. strongest, most muscular chamber of the heart

21. location of oxygenated/deoxygenated blood within heart and vessels
22. systole vs. diastole