# Cardiovascular System (Part II) Study Guide

1. Intrinsic Conduction System of the Heart pp. 354-357
	* Figure 11.5 – The intrinsic conduction system of the heart
	* Sinoatrial (SA) node – “The Pacemaker”
	* Atrioventricular (AV) node
	* AV Bundle, bundle branches, Purkinje fibers

1. Electrocardiography (ECG/EKG) p. 356
	* P wave = Atria contracting
	* QRS complex = Ventricles contracting, Atria relaxing
	* T wave = Ventricles relaxing
2. Cardiac Cycle and Heart Sounds pp. 357-358
	* Systole: when the ventricles are contracting
	* Diastole: when the ventricles are relaxing
	* Heart sounds
		+ “Lub” is closing of the AV valves
		+ “Dub” is closing of the aortic and pulmonic valves
3. Cardiac Output p. 358
	* Cardiac Output (ml/min) = Heart Rate (beats/min) x Stroke Volume (ml/beat)
4. Blood Pressure pp. 372-374
	* Blood Pressure (BP) = Cardiac Output (CO) x Peripheral Resistance (PR)
	* Figure 11.17 – Blood pressure in arteries vs. veins
	* Figure 11.18 – Measuring your blood pressure
5. Blood vessels pp. 360-362
	* Arteries, arterioles, capillaries, venules, veins
	* Figure 11.8 – Structure of blood vessels
	* Structural differences between arteries, veins, and capillaries
	* Fig. 11.9 – The muscular pump