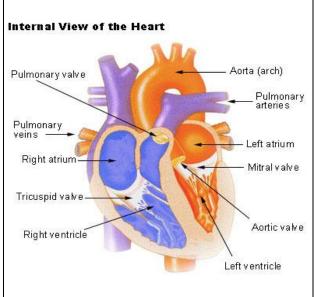
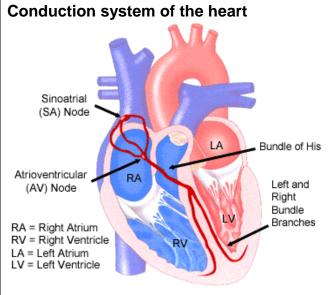
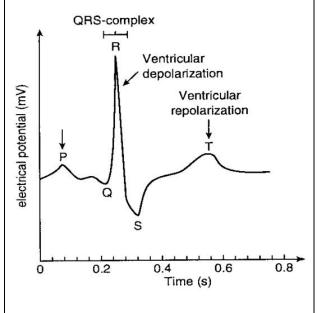
## VANCOUVER COMMUNITY COLLEGE

## Cardiovascular System







P wave- the electrical activity associated with contraction of the cardiac atria
PR interval – delay between atrial depolarization and ventricular depolarization
QRS complex - indicates the onset of contraction of the ventricles
ST segment – period between ventricular depolarization and the beginning of ventricular repolarization

**T wave** – ventricular repolarization. Ventricles return to a resting state



**Diastole** – the AV valves (mitral valve & tricuspid valve) are open & the ventricles are relaxed. Blood rushes through the atria into the ventricles. Flow completes when atria contract raising the left ventricular pressure.

**Systole** – Ventricles contract, increasing ventricular pressure. This causes the AV valves to shut producing the first heart sound **(S1)**. The aortic valve and the pulmonic valve open and blood is ejected through these valves. When the ventricles relax, the ventricular pressure falls and the two semilunar valves shut producing the 2<sup>nd</sup> heart sound **(S2)**.

## **Special terms:**

**Arrhythmias** – abnormal heart rhythms (dysrhythmias)

**Fibrillation** – rapid, random, ineffectual and irregular contractions of the heart

**Endocarditis** – inflammation of the lining of the heart caused by bacteria

**Mitral valve prolapse** – improper closure of the mitral value when is heart is pumping blood

Angina pectoris – chest pain
Auscultation – listening with a stethoscope
Infarction – area of dead tissue
Palpitations – uncomfortable sensations in
the chest related to cardiac arrhythmias
Aneurysm – local widening of artery

