**Chapter 18 Anatomy of the Blood Vessels**

The circulatory system consists of the heart and blood vessels.
- Connected hollow tubes that begin and end in the heart.
- The blood vessels form a path through the body.

1. **Act as a delivery system.**
2. **Regulate blood pressure.**
3. **Engage in the exchange of nutrients & waste between capillaries & cells.**
4. **Redistribute blood in response to changing body needs.**
5. **Help regulate body temperature.**

**THE PRIMARY PURPOSE OF THE CARDIOVASCULAR SYSTEM IS TO DELIVER BLOOD THAT IS RICH IN OXYGEN, HORMONES, NUTRIENTS & WATER TO THE CELLS.**

- **Key Terms**
  - Ischemia
  - Blood Pressure
  - Systolic
  - Diastolic
  - Pulse Pressure
  - Hypertension
  - Hypotension
  - KOTTLEK SOUNDS
  - Systemic vascular resistance
  - Vasodilation
  - Vasorelaxation
  - Baroreceptor reflex
  - Vasopressor
  - Capillary exchange

- **Blood Pressure**
  - **Expressed in millimeters of mercury (mm Hg).**
  - **Highest in the aorta (closest to left ventricle).**
  - **Arterial to venous.**

- **Hypertension**
  - Systolic
  - **Hypotension**
  - Diastolic

- **Vagus Nerve**
  - 10th Cranial
  - Sensory out / motor in