

Day 03 – 2/3/14

Student Learning Objectives

By the end of this class you will be expected to understand:

- The three major parts of all cells
- The structure and function of a cell membrane
- The distinction between a cell membrane and cell wall
- The nature of diffusion and osmosis
- The three types of membrane transport
- Bulk transport and ionic transport in cells

Support videos:

- Cell Membranes
 - <http://www.youtube.com/watch?v=dPKvHrD1eS4>

Assigned reading:

- Chapter 3, pages 50-61

Vocabulary:

- Prokaryote
- Eukaryote
- Nucleus
- Organelle
- Cytoplasm
 - Cytosol
- Plasma membrane
 - Cell membrane (*synonym*)
 - Phospholipid
- Diffusion
 - Concentration gradient
 - Osmosis
 - Selectively permeable
 - Semipermeable
 - Hypertonic
 - Hypotonic
 - Isotonic
 - Lysis (*noun*)
 - Lyse (*verb*)
- Passive Transport
- Facilitated Diffusion
- Active Transport
- Vesicle
 - Endocytosis
 - Exocytosis