

Day 13 – 3/19/14

## Student Learning Objectives

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

- The functions of the autonomic nervous system
- The three major regions of the brain and their general functions
- The layers of protection around the central nervous system
- The functions of sleep, memory and the limbic system

Support videos:

- Brain Structure and Function
  - [http://www.youtube.com/watch?v=Ux\\_Dr5rvH3Y](http://www.youtube.com/watch?v=Ux_Dr5rvH3Y)
  - <http://www.youtube.com/watch?v=9UukcdU258A>
  - <http://www.youtube.com/watch?v=JHAKCGi-eeo>
- Parts of the Brain
  - <http://www.youtube.com/watch?v=snO68aJTOpM>

Assigned reading:

- Chapter 11: p256-267

Vocabulary:

- Autonomic nervous system
  - Sympathetic nervous system
    - Epinephrine
    - Norepinephrine
    - Adrenaline
    - “Fight or flight” response
  - Parasympathetic nervous system
    - “Rest and digest” response
- Spinal cord
  - Reflex
- Forebrain
  - Cerebral cortex
    - Cerebral hemisphere
  - Thalamus
  - Hypothalamus
- Midbrain
- Hindbrain
  - Cerebellum
  - Brain stem
- CNS Protection
  - Meninges
  - Cerebrospinal fluid
  - Blood-brain barrier
  - Concussion
- Sleep
  - REM sleep
  - Non-REM sleep
- Limbic system
- Memory
  - Short-term memory
  - Long-term memory
  - Limbic memory
  - Motor memory