

Day 10 – 3/10/14

Student Learning Objectives

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

- The structure and function of whole muscle
- The sliding filament model of skeletal muscle contraction
- The role of ions in the stimulation and contraction of muscles
- The role of different energy sources in muscle contraction

Support videos:

- Muscle Structure and Function
 - <http://www.youtube.com/watch?v=jqy0i1KXUO4>
 - <http://www.youtube.com/watch?v=uY2ZOsCnXIA>

Assigned reading:

- Chapter 6: p122-130

Vocabulary:

- Muscle
 - Skeletal muscle
 - Smooth muscle
 - Cardiac muscle
- Whole muscle
 - Origin
 - Insertion
 - Fascicle
 - Muscle Fiber
- Sliding Filament Model
 - Myofibril
 - Sarcomere
 - Myosin
 - Actin
 - Sarcoplasmic Reticulum
 - Rigor Mortis
- Motor Neuron
 - Neurotransmitter
 - T Tubule
- Oxygen Debt
 - Creatine Phosphate
 - Glycogen
 - Glucose
 - Fatty Acids
 - Fatigue