BIOL 220 A&P I

Labs 8 & 9: Muscle Tissue

There are over 600 muscles in the body. We are requiring you to learn just a few, plus the Calcaneal (Achilles) tendon. In addition to identification of muscles on the models, you will be required to describe each muscle's action(s) using the proper terminology (Exercise 11 in Lab text & Skeletal Atlases). It helps to know an antagonist, synergist, or fixator at the same joint.

You are not responsible for knowing origins and insertions, however, you might find them useful as one can figure out the muscle's action by looking at these sites.

The attached Muscle Assignment, as well as the drawings listed below are due on final exam day.

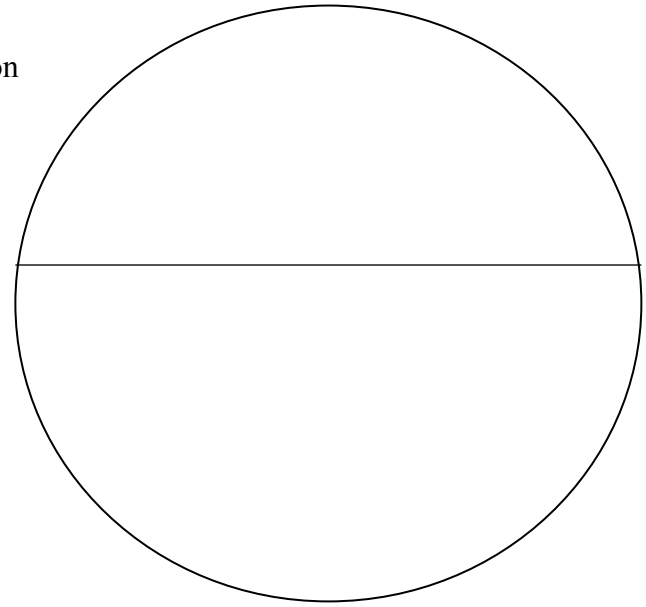
See Exercise 13 and the Kinesiology Manuals for assistance with the individual muscles.

Slide Assignment: Muscle Tissue

(Exercise 12 in Lab Text, Chapter 8 in Histology Text)

Draw the following slides using the figures in the lab and histology texts as a reference. Use whichever magnification works best to show all given structures. Please note that not every slide will show everything; you will need to look at multiple slides and/or sources. Your drawings should artistically combine views to include all structures.

- **Motor Nerve Ending/Muscle Spindle** – View these two slides to draw, label, and understand the function of the following.
  - Sarcomeres
  - Nerve
  - Axon Terminal/Neuromuscular Junction



- **Skeletal Muscle** – Draw, label, and understand the function of the following. You will need to draw a transverse section to show all structures! Note: this slide is in slide box 5.
  - Myofibril
  - Muscle Fiber
  - Fascicle
  - Nuclei
  - Endomysium
  - Perimysium
  - Epimysium