**Bio 322 – Human Anatomy**

**Objective list for Exercise #18 : Eye/Ear**

1. **Eye Anatomy:**
   1. **Read and understand information on pages 247 (External/Internal features of eye) through page 252. Skip the material on dissection of the sheep eyeball.**
   2. **Know all structures on Figures 18.4, 18.5, 18.6, 18.7, 18.10.**
   3. **For the histology of the retina, we will not be looking at our own microscope slides so focus (no pun intended) on Figure 18.9 and be sure to know the order of the layers of neural cells within the retina.**
      1. **Deepest=next to vitreous humor/body →1.Ganglionic layer, 2.Bipolar layer, 3.Photoreceptor layer (rods and cones)→ Superficial=next to choroid**
   4. **Be sure to understand projection of visual pathways on Figure 18.8.**
      1. **Important to note that left field of view is processed by right side of brain, and vice versa for right field of view.**
   5. **Eye Models:**
      1. **Be able to identify lacrimal gland; three layers of the eyeball : sclera (and cornea), choroid, retina; all 6 extrinsic eye muscles, lens, iris, suspensory ligaments, vitreous body, optic disk, fovea centralis.**
2. **Ear anatomy**
   1. **Read and understand information on pages 254 (Anatomy of the ear) through page 259 (vestibule and semicircular ducts).**
   2. **You should know all of the structures listed on Figures 18.12, 18.14, 18.15, 18.16.**
   3. **On the ear models you should be able to identify: auricle (outer ear), auditory canal, tympanic membrane, all 3 ossicles (in order), eustachian (auditory) tube, cochlea, semicircular canals, vestibulocochlear nerve (CN VIII).**