Assignment p. 111

- Beef Eye dissection
- ADAM Anatomy of the Eye and Ear
- Examination of Eye and Ear using the ophthalmoscope and otoscope
- Nerve Pathways for Vision and Hearing
- Histology of the Special Senses (p. 115)
- Models:
  - Eye and Ear (keys begin on p. 117)
Learning Objectives

1. Describe the functional unit for the senses of smell, taste, vision, hearing, and equilibrium, and the important features of the stimulus to which each receptor may respond.
2. Describe the anatomy of the ear and explain the function of each feature.
3. Describe the anatomy of the eye and explain the function of each feature.
4. Explain how light is refracted by the anatomical features of the eye.

Beef Eye Dissection p. 111

- Wear PPE at all times.
- Rinse all preserved specimens off with large amounts of tap water before you begin dissection.
- Wear goggles when removing or replacing specimens in the bucket, and when rinsing off with tap water.
- When finished with dissection, rinse off the dissecting pan and dissecting instruments, and return these neatly for the next class to use.

Click here for a video clip demonstration of the dissection.
ADAM: Eye & Ear

Use the pull down menu (or List Manager) to select the structures listed in the assignment. Also use Atlas Anatomy.

Ophthalmoscope p. 113

Angle the light slightly toward the medial side. Blood vessels and nerve fibers enter/leave the fundus of the eye at the same location. Name this location (arrow).
Histology of the Retina

From which direction will light arrive at this section of the retina? Identify the layers in the retina.

Nerve Pathway for Vision
Clean the ear speculum with alcohol before and after each use.

Pull gently on the pinna and insert the speculum just inside the ear canal before you look through the eyepiece. Angle your view slightly toward the nose. The tympanic membrane looks like wax paper.

This lever system works at a mechanical advantage, amplifying sound energy transmitted to the cochlea.
Nerve Pathway for Hearing

Histology of the Cochlea

Identify the vestibular, basilar, and tectorial membranes.
Next Week

Endocrine & Digestive Systems
– The next check-off combines Endocrine and Digestive systems

Upcoming:
• Exam II on Friday, Nov. 5th
• Veteran’s Day Holiday – no classes Nov. 11th
• Muscle Matching Quiz II (Tuesday, Nov. 9th)