Cards & Staff Introduction

Last Name, First, Nickname, Phone, e-mail Lab time

Major, Undeclared or Area of Interest?

Academic Status: Fr, So, Jr, Sr, PB, MS, CEP

Professional Objective

Hometown, Birthplace

Why enrolled? Required? Interest?...

Prior related coursework? A&P in high school, EMT,...

Prior Universities/Community Colleges?

Family/Special interests/Hobbies

Something unique about yourself/Secret we won't reveal!

Thanks for printing your name & lab time on Lab notebook.
BI 121 Lab 1, Histology = Microscopic Study of Tissues

I. **Lab Roster** Cards & Staff Introduction

II. **Requirements** Attendance, Participation, Worksheets

III. **Histology for Beginners** In Memory of Harry Howard

IV. **Microscope Familiarity**
   A. Objectives/nosepieces – power up!
   B. Focus – coarse and fine
   C. Movement – mechanical stage
   D. How do I put a slide on the stage?
   E. Adjusting for eye width

V. **View & Have Fun!** See also photos @ front & scopes in back. Please ask questions & come see us!
1. Put the e & i slide **upright** on the microscope tray so you can read it & see how looking through the scope changes what you see.

2. Use the remaining time **simply to explore** nerve, muscle, epithelial & connective tissues – really anything you want – just be sure to **keep the slides in the tray in order**! Thanks!
Histology for Beginners

In Memory of Harrison Howard
Former Director, Bio-optical Lab
Neuron 1
Input
Dendrites ≡ Antennae
Controller
Soma ≡ NCB
Output
Axon

Nerve conducts!

Connective tissue connects!

Neuron 2

Neuron 3
Controllers $\equiv$ NCBs/somas not pictured $\rightarrow$ in spinal cord

Output $\equiv$ Axons

Bouton with Neurotransmitter Vesicles

Effectors $\equiv$ Target Organs Voluntary Skeletal Muscle Fibers
Columnar Epithelium, Gall Bladder

Epithelial tissue covers & is specialized for transport!
Primary Oocytes

Follicle undergoing atresia

Graffian Follicle with developing ovum/egg

Ovum

Ovary cross section
Connective tissue connects!!

Nuclei of fibroblasts

Elastin

Collagen

Connective tissue
Now, try to identify anatomical site & tissues!