

Bio 135 Lab: Tissues lab part one :

Objectives:

- Learn the names, locations and functions of the various tissue types associated with integument, epithelium, muscle and nerve
- Be able to identify a tissue and its important features under a microscope or from a projected image.
- Learn the cell types located in each tissue.
- Learn the characteristics of each tissue.

Lab pre activities:

1. Complete the attached handout on these tissues except for drawings.
2. Go to the course website provided by your publisher. Under course chapters choose chapter 3 go to tissues and complete quizzes 3.4, 3.6, and 3.7 these are for your benefit and are not used in your grade calculations.

Lab in person activities:

1. Look slides of epithelium, skin, muscle and nerve using the lab microscopes
2. Identify structures on the integument model
3. Draw tissues in the appropriate boxes on the attached lab handout.

Bio135 — Basic Human Anatomy & Physiology
 Epithelial Tissues

Fill in the following table.

Student name: _____

Tissue Cell	1. Cell Shape Draw Picture here	2. Number of cell Layers	3. Special Features	4. Functions of the tissue	5. Locations of tissue
Simple Squamous					
Stratified Squamous					
Simple Cuboidal					
Stratified Cuboidal (Not in lab!)					
Simple Columnar					
Pseudostratified Columnar					
Stratified Columnar (Not in lab!)					
Transitional					

2 One or multiple

3 Special features include any additional identifiable structures except nuclei (which you should be able to identify for all tissues). These may include cilia, microvilli, and goblet cells.

4. possible locations

Muscle Tissues

Fill in the following table.

Student Name: _____

Tissue	Fiber size	Shape Draw Here	Number of nuclei	Special features	Control *	Locations
Skeletal						
Cardiac						
Smooth						

Nervous Tissue

Fill in the following table.

Tissue	Cell shape Draw Here.	Special features	Function	Locations ***
Nervous				

* Voluntary or involuntary

** Describe shape as best you can

*** List 3-4 locations throughout the body.

Keep these pages for reference for the next lab test.

1-17-11snnyder