

**Brown Pfizer Program**  
**HISTOLOGY – Fall 2020**  
**BIOL 1890**

## **Course Syllabus**

This course will provide an in-depth treatment of the "stuff we are made of" and the wonderful logic of its organization. The basic architecture of the body is of primary significance in gaining an understanding of what we as human are made of, and how human body works. Fundamental to such an understanding is the basic unit of life, the cell. During early development, cells in the aggregate undergo specialization as tissues, which are the building blocks of the body. This course focuses first on the biology of the four basic tissues (epithelium, connective tissue, muscle and nerve) and second, how they contribute to the functional anatomy of all organs and systems. We will emphasize characteristic developmental, structure-function and regulatory relationships many of which are the foundation for the understanding of pathologic alteration.

### **INSTRUCTOR:**

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**Teaching assistant: tbd**

**CLASSES** will meet on Wednesdays, 3:00-6:00 on the Pfizer campus.

**COURSE EVALUATION** will be based on three examinations. Each exam will consist of:

1. A written portion emphasizing details of cell and tissue morphology and understanding of parallels and interrelationships among the vast array of structures,
2. A practical segment (using photomicrographs and diagrams) emphasizing identification of structures in relation to their corresponding functional attributes.

**BOOKS and Materials:**

A Canvas site will contain Lecture Notes, PowerPoint presentations, and a link to virtual labs for lab practicum with guided lab manual.

**Required Text:**

**Junqueira's Basic Histology, 13th Edition: Text and Atlas (Paperback) by Anthony Mescher (ISBN13: 9780071630207)**

**BlgBee and Pakurar Interactive atlas**

## COURSE SCHEDULE – Fall 2020 -- Histology

<u>Date</u>	<u>Lecture Topic</u>	<u>Junqueira Chapter</u>
9/9	Introduction to cell	1, 2, 3
	Epithelium	4
9/16	Connective Tissue	5, 6
	Cartilage, Bone	7, 8
9/23	Muscle	10
	Nerve	9
9/30	<b>EXAM I</b>	
	Blood and hematopoiesis	12, 13
10/7	Vascular	11
	Lymphatic System	14
10/14	Digestive System	15
	Accessory GI: tongue, teeth	16
10/21	Accessory GI: Liver, Pancreas, GB	16
	Respiratory System	17
10/28	<b>EXAM II</b>	
	Skin	18

11/4	Urinary System	19
	Endocrine system	20
11/11	Reproductive system (intro)	
	Male reproductive system	21
11/18	Female reproductive system	22
	Implantation and Placenta	
11/25	Review	
12/2	<b>EXAM III</b>	