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**Anatomy and Histology 131702251**  
**First Semester – Academic Year 2018-2019**  
**Course Syllabus**

**Course information**

Course title	Anatomy And Histology		
Course number	131702251		
Credit hours	3		
Pre- or Co-requisite course	General Biology 1 (110108105)		
Class meeting place	Faculty of Medicine Hall 302		
Class meeting time	Mon and Wed 11:00-12:30		
<b><i>Course Instructors:</i></b>			
Name	Dr. Mustafa Saad Yousuf (coordinator) Dr. Walaa Al-Zoboun		
Office number	Dr. Mustafa Saad	3019 (Department of Basic Medical Sciences)	
	Dr. WalaaAl-Zoboun	3028 (Department of Basic Medical Sciences)	
Office hours	Dr. Mustafa Saad	Mon, Wed 9:00-11:00	
	Dr. Walaa Al-Zoboun	Mon, Wed 9:00-11:00	
Website	http://staff.hu.edu.jo/msysalman		

**Course description:**

Anatomy and Histology are two essential basic medical courses. Histology is the science that studies normal microscopic structures, ultra-structures and their related function; whereas, Anatomy studies the gross appearance of the various organs that make up the systems of the human body. Through class lecture, the students will be made to master the basic knowledge of the morphology and relations of the anatomical structures that are present in humans and the histological tissues that form these structures. The relation between the type of tissue present in an organ and the shape and functions of that organ is stressed.

**Learning outcomes:**

- 1- To define the various terms that are used in anatomy.
- 2- To list and understand the different types of basic body tissues.
- 3- To describe the components of each of the major body systems with regard to the organs that make up the system, the relations between the organs and the histological tissues that are present in each of these organs.

### **Instructional methods:**

- 2 lectures / week
- The students are expected to have a workload of 6 hours / week outside class

### **Textbooks and material:**

The latest edition of:

- 1) Principals of Anatomy and Physiology; Gerard J. Tortora. (The recommended textbook).
- 2) Clinical Anatomy by System; Richard S. Snell.
- 3) Basic Histology Text & Atlas; L C Junqueira & J Carneiro.
- 4) Di Fiore's Atlas of Histology with Clinical Correlation.
- 5) Various sources from the World-Wide Web are encouraged to be used.

### **Grading Policy:**

- First exam: 30%
- Second exam: 30%
- Final exam: 40%
- Makeup Exam:
  - A student is not allowed to have a makeup exam unless he/she presents a valid excuse within 72 hours of the scheduled exam. For the first and second exams, the excuse is presented to the instructor; for the final exam, the excuse is presented to the Dean of the Faculty of Pharmaceutical Sciences. (The time and date of the makeup exams will be announced at the appropriate times).

### **Students Responsibilities**

**A student at the college of Pharmaceutical Sciences must:**

- Demonstrate academic integrity and honesty
- Attend and participate in classes and be on time
- Do any assigned work in a timely manner and with the highest quality
- Respect diverse ideas and opinions
- Dedicate sufficient time outside of class to college work and study

### **Absence**

- Attendance is mandatory.
- If a student is absent for a teaching session, then he/she must discuss this with the course instructor.
- Absence for more than 15% of the course is not allowed
  - For this course, a final warning is given for absence of 7 lectures and the student is forbidden from taking the final exam if he/she has an absence of 8 or more lectures.

## **Cheating**

Cheating in an exam, in any form, is forbidden. Any student caught cheating will be reported to the Dean of Pharmaceutical Science and further action taken as necessary according to the regulations of the Hashemite University.

## **Classroom Protocol:**

- Students are expected to attend all sessions and to arrive on time for lectures.
- It is each student's responsibility to know their timetable and which session they should attend on which day.
- Students are expected to behave respectfully towards all members of staff and to each other.
- Mobile phones are to be switched off during teaching sessions.
- Eating, drinking and smoking are forbidden.

## **Course Schedule:**

Topic	Specific Objectives
<b>Introduction</b>	<ol style="list-style-type: none"><li>1. Define anatomy and its different branches.</li><li>2. Understand the various levels of structural organization.</li><li>3. Understand the meaning of the Standard Anatomical Position and its significance.</li><li>4. Learn about the various planes used in the study of anatomy.</li><li>5. Define the various terms used in anatomy.</li></ol>
<b>Tissues</b>	<ol style="list-style-type: none"><li>1. To describe the general features &amp; characteristics of epithelium.</li><li>2. To understand the basic structure &amp; functions of Basal Lamina and how it differs from Basement Membrane.</li><li>3. Enumerate the types of epithelium and the bases of their classification</li><li>4. Define epithelial cell polarity.</li><li>5. List and differentiate between the types of cellular junctions.</li><li>6. Define connective tissue.</li><li>7. Enumerate the various types of cells that are present in this tissue and know their main histological features and functions.</li><li>8. Differentiate between the various types of connective tissue.</li><li>9. Learn about the main features of adipose tissue.</li><li>10. Enumerate the different types of cartilage, its main features and location.</li></ol>
<b>Skin</b>	<ol style="list-style-type: none"><li>1. Define the skin.</li><li>2. Know the various layers of the skin and the features of these layers.</li><li>3. Describe the appendages of the skin.</li></ol>
<b>Skeletal System</b>	<ol style="list-style-type: none"><li>1. Identify the main features of the osseous tissue.</li><li>2. Understand the characteristics of the bones that make up the axial skeleton.</li><li>3. Understand the characteristics of the bones that make up the appendicular skeleton.</li><li>4. Define joints and know the differences between its various types.</li><li>5. Define the terms that are used in describing movements in the joints.</li><li>6. Discuss the important features of some of the large joints in the body.</li></ol>

<b>Muscular system</b>	<ol style="list-style-type: none"> <li>1. Identify the main features of muscular tissue and differentiate between the three types of muscles.</li> <li>2. Take a quick overview of the several muscles present in the regions of the head, neck, thorax, abdomen and the upper and lower limbs.</li> </ol>
<b>Nervous System and the Special Senses</b>	<ol style="list-style-type: none"> <li>1. Understand the main features of the nervous tissue.</li> <li>2. Discuss briefly the characteristics of the structures that make up the central nervous system (brain and spinal cord).</li> <li>3. Discuss briefly the parts of the peripheral nervous system (the cranial nerves, the spinal nerves and the autonomic nervous system).</li> <li>4. Know the main differences between the general and special senses.</li> <li>5. Know the main features of the olfactory epithelium.</li> <li>6. Know the main features of taste buds.</li> <li>7. Study the structure of the eye and related structures.</li> <li>8. Study the structure of the ear.</li> </ol>
<b>Cardiovascular System</b>	<ol style="list-style-type: none"> <li>1. Define Blood and know its various components.</li> <li>2. Study the main features of the cellular elements that are present in the blood.</li> <li>3. Define the thoracic cavity and mediastinum.</li> <li>4. Identify the main features of the heart.</li> <li>5. Discuss the conducting pathway and the blood supply of the heart.</li> <li>6. Define the pulmonary and systemic circulation.</li> <li>7. Take a quick overview of the blood vessels present in the regions of the body.</li> </ol>
<b>Lymphatic System</b>	<ol style="list-style-type: none"> <li>1. Identify the components of the lymphatic system.</li> <li>2. Discuss the lymphatic vessels and organs of the lymphatic system (thymus, lymph nodes and spleen).</li> </ol>
<b>Respiratory System</b>	<ol style="list-style-type: none"> <li>1. Identify the organs of the respiratory system.</li> <li>2. Classify these organs structurally and functionally.</li> <li>3. Discuss the main features of the organs.</li> </ol>
<b>Digestive System</b>	<ol style="list-style-type: none"> <li>1. Enumerate the organs of the digestive system.</li> <li>2. Study the main features of these various organs.</li> <li>3. Study the main features of the accessory digestive organs and their involvement in the function of the digestive system.</li> </ol>
<b>Urinary System</b>	<ol style="list-style-type: none"> <li>1. List the organs of the renal system.</li> <li>2. Know the main features and functions of these organs.</li> </ol>
<b>Endocrine System</b>	<ol style="list-style-type: none"> <li>1. Identify the various endocrine glands of the body.</li> <li>2. Know their main anatomical and histological features.</li> </ol>
<b>Reproductive System</b>	<ol style="list-style-type: none"> <li>1. Know the differences between the male and female reproductive organs.</li> <li>2. Identify the features of these organs.</li> </ol>