



Syllabus: Anatomy and Histology (1917021251) First Semester 2021 /2022

COURSE INFORMATION	
<p>Course Name: Anatomy and Histology Semester: First Department: Department of Faculty: Faculty of Pharmaceutical Sciences</p>	<p>Course Code: 1917021251 Section: 1 and 2 Core Curriculum:</p>
<p>Day(s) and Time(s): Section 1: Sun, Tue 18:00-19:00 Section 2: Mon, Wed 18:00-19:00</p> <p>Classroom: Online through Microsoft Teams</p>	<p>Credit Hours: 2</p> <p>Prerequisites: General Biology 1 (110108105)</p>
COURSE DESCRIPTION	
<p>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.</p>	
DELIVERY METHODS	
<p>The course will be delivered through a combination of active learning strategies. These will include:</p> <ul style="list-style-type: none"> • PowerPoint lectures and active classroom based discussion • Collaborative learning through small groups acting in an interdisciplinary context. • Video lectures • E-learning resources: e-reading assignments, practice quizzes, and interactive web activities 	

FACULTY INFORMATION

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REFERENCES AND LEARNING RESOURCES

Required Textbook:

- Gerard J. Tortora and Bryan H. Derrickson. *Principles of Anatomy and Physiology* (Wiley, 15th edition: 2017). ISBN: 978-1-119-40006-6

Suggested Additional Resources:

- Richard Drake, A. Wayne Vogl, Adam Mitchell, Richard Tibbitts, and Paul Richardson. *Gray's Atlas of Anatomy*. (Churchill Livingstone, 3rd edition: 2020). ISBN: 9780323636391
- Anthony L. Mescher. *Junqueira's Basic Histology: Text and Atlas*. (McGraw-Hill Education. 15th edition: 2018). ISBN: 978-1260026177

Useful Web Resources:

STUDENT LEARNING OUTCOMES MATRIX

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

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

ACADEMIC SUPPORT

It is The Hashemite University policy to provide educational opportunities that ensure fair, appropriate and reasonable accommodation to students who have disabilities that may affect their ability to participate in course activities or meet course requirements. Students with disabilities are encouraged to contact their Instructor to ensure that their individual needs are met. The University through its Special Need section will exert all efforts to accommodate for individual's needs.

Special Needs Section:

Tel:

Location:

Email:

COURSE REGULATIONS

Participation

Class participation and attendance are important elements of every student's learning experience at The Hashemite University, and the student is expected to attend all classes. A student should not miss more than 15% of the classes during a semester. *Those exceeding this limit of 15% will receive a failing grade regardless of their performance.* It is a student's responsibility to monitor the frequency of their own absences. **Attendance record begins on the first day of class irrespective of the period allotted to drop/add and late registration. It is a student's responsibility to sign-in; failure to do so will result in a non-attendance being recorded.**

In exceptional cases, the student, with the instructor's prior permission, could be exempted from attending a class provided that the number of such occasions does not exceed the limit allowed by the University. The instructor will determine the acceptability of an absence for being absent. A student who misses more than 25% of classes and has a valid excuse for being absent will be allowed to withdraw from the course.

Plagiarism

Plagiarism is considered a serious academic offence and can result in your work losing marks or being failed. HU expects its students to adopt and abide by the highest standards of conduct in their interaction with their professors, peers, and the wider University community. As such, a student is expected not to engage in behaviours that compromise his/her own integrity as well as that of the Hashemite University.

Plagiarism includes the following examples and it applies to all student assignments or submitted work:

- **Use of the work, ideas, images or words of someone else without his/her permission or reference to them.**
- **Use of someone else's wording, name, phrase, sentence, paragraph or essay without using quotation marks.**
- **Misrepresentation of the sources that were used.**

The instructor has the right to fail the coursework or deduct marks where plagiarism is detected

Late or Missed Assignments

In all cases of assessment, students who fails to attend an exam, class project or deliver a presentation on the scheduled date without prior permission, and/or are unable to provide a medical note, will automatically receive a fail grade for this part of the assessment.

- Submitting a term paper on time is a key part of the assessment process. Students who fail to submit their work by the deadline specified will automatically receive a 10% penalty. Assignments handed in more than 24 hours late will receive a further 10% penalty. Each subsequent 24 hours will result in a further 10% penalty.
- In cases where a student misses an assessment on account of a medical reason or with prior permission; in line with University regulations an incomplete grade for the specific assessment will be awarded and an alternative assessment or extension can be arranged.

Student Complaints Policy

Students at The Hashemite University have the right to pursue complaints related to faculty, staff, and other students. The nature of the complaints may be either academic or non-academic. For more information about the policy and processes related to this policy, you may refer to the students' handbook.

COURSE ASSESSMENT

Course Calendar and Assessment

Students will be graded through the following means of assessment and their final grade will be calculated from the forms of assessment as listed below with their grade weighting taken into account. The criteria for grading are listed at the end of the syllabus

Assessment	Grade Weighting	Deadline Assessment
First Exam	30%	7-18 / 11 / 2021 (weeks 5-6)
Second Exam	30%	5-16 / 12 / 2021 (weeks 9-10)
Final Exam	40%	15-27 / 1 / 2022 (weeks 15-16)

Description of Exams

Test questions will predominately come from material presented in the lectures. Semester exams will be conducted during the scheduled exam period. The exact date and time will be determined later. Exams will consist of multiple choice questions.

Quizzes: Unannounced quizzes will be given during or/and at the end of each chapter based upon the previous lectures. It will enforce that you come prepared to the class.

No make-up exams, homework or quizzes will be given. Only documented absences will be considered as per HU guidelines.

Grades are not negotiable and are awarded according to the following criteria:

Letter Grade	Description	Grade Points
A+	Excellent	4.00
A		3.75
A-		3.50
B+	Very Good	3.25
B		3.00
B-		2.75
C+	Good	2.50
C		2.25
C-		2.00
D+	Pass	1.75
D	Pass	1.50
F	Fail	0.00
I	Incomplete	-

<i>Date</i>	<i>Class</i>	<i>Lecture</i>	<i>Topic</i>
Week 1			
Sun 10-10-2021	Class 1	Lecture 1	Introduction
Mon 11-10-2021	Class 2	Lecture 1	Introduction
Tue 12-10-2021	Class 1	Lecture 2	Introduction
Wed 13-10-2021	Class 2	Lecture 2	Introduction
Week 2			
Sun 17-10-2021	Class 1	Lecture 3	Tissue
Mon 18-10-2021	Class 2	Lecture 3	Tissue
Tue 19-10-2021	Class 1	Lecture 4	Tissue
Wed 20-10-2021	Class 2	Lecture 4	Tissue
Week 3			
Sun 24-10-2021	Class 1	Lecture 5	Skin
Mon 25-10-2021	Class 2	Lecture 5	Skin
Tue 26-10-2021	Class 1	Lecture 6	Skeletal System
Wed 27-10-2021	Class 2	Lecture 6	Skeletal System
Week 4			
Sun 31-10-2021	Class 1	Lecture 7	Skeletal System
Mon 1-11-2021	Class 2	Lecture 7	Skeletal System
Tue 2-11-2021	Class 1	Lecture 8	Skeletal System
Wed 3-11-2021	Class 2	Lecture 8	Skeletal System
Week 5			
Sun 7-11-2021	Class 1	Lecture 9	Skeletal System
Mon 8-11-2021	Class 2	Lecture 9	Skeletal System
Tue 9-11-2021	Class 1	Lecture 10	Skeletal System
Wed 10-11-2021	Class 2	Lecture 10	Skeletal System
Week 6			
Sun 14-11-2021	Class 1	Lecture 11	Muscular System
Mon 15-11-2021	Class 2	Lecture 11	Muscular System
Tue 16-11-2021	Class 1	Lecture 12	Muscular System
Wed 17-11-2021	Class 2	Lecture 12	Muscular System
Week 7			
Sun 21-11-2021	Class 1	Lecture 13	Muscular System
Mon 22-11-2021	Class 2	Lecture 13	Muscular System
Tue 23-11-2021	Class 1	Lecture 14	Cardiovascular System
Wed 24-11-2021	Class 2	Lecture 14	Cardiovascular System

<i>Date</i>	<i>Class</i>	<i>Lecture</i>	<i>Topic</i>
Week 8			
Sun 28-10-2021	Class 1	Lecture 15	Cardiovascular System
Mon 29-10-2021	Class 2	Lecture 15	Cardiovascular System
Tue 30-10-2021	Class 1	Lecture 16	Cardiovascular System
Wed 1-12-2021	Class 2	Lecture 16	Cardiovascular System
Week 9			
Sun 5-12-2021	Class 1	Lecture 17	Cardiovascular System
Mon 6-12-2021	Class 2	Lecture 17	Cardiovascular System
Tue 7-12-2021	Class 1	Lecture 18	Lymphatic System
Wed 8-12-2021	Class 2	Lecture 18	Lymphatic System
Week 10			
Sun 12-12-2021	Class 1	Lecture 19	Renal System
Mon 13-12-2021	Class 2	Lecture 19	Renal System
Tue 14-12-2021	Class 1	Lecture 20	Digestive System
Wed 15-12-2021	Class 2	Lecture 20	Digestive System
Week 11			
Sun 19-12-2021	Class 1	Lecture 21	Digestive System
Mon 20-12-2021	Class 2	Lecture 21	Digestive System
Tue 21-12-2021	Class 1	Lecture 22	Nervous System
Wed 22-12-2021	Class 2	Lecture 22	Nervous System
Week 12			
Sun 26-12-2021	Class 1	Lecture 23	Nervous System
Mon 27-12-2021	Class 2	Lecture 23	Nervous System
Tue 28-12-2021	Class 1	Lecture 24	Nervous System
Wed 29-12-2021	Class 2	Lecture 24	Nervous System
Week 13			
Sun 2-1-2022	Class 1	Lecture 25	Nervous System
Mon 3-1-2022	Class 2	Lecture 25	Nervous System
Tue 4-1-2022	Class 1	Lecture 26	Respiratory System
Wed 5-1-2022	Class 2	Lecture 26	Respiratory System
Week 14			
Sun 9-1-2022	Class 1	Lecture 27	Endocrine System
Mon 10-1-2022	Class 2	Lecture 27	Endocrine System
Tue 11-1-2022	Class 1	Lecture 28	Reproductive System
Wed 12-1-2022	Class 2	Lecture 28	Reproductive System