Faculty of Medicine Pathology And Histology Department



الجامعة العربية الأمريكية

كلية الطب Pathology and Histology Department

Course Syllabus A. COURSE INFORMATION AND TEACHING STAFF Name HISTOLOGY Code 200241210 Activity Lecture 1. Course **Credit hours** 2 Semester Spring 2023/2024 **Pre-requisite** No Pre-Requisite Section Building Room Day Time Instructor Office hours 2. Teaching staff, time Dr.Sundus Fahoum Issa Shalabi 10:00-10:50 3 MTW 14:00 - 14:50 and location MS 207 Th Sundus.Shalabi@aaup.edu 11:00-11:50

	B. COURSE POLICIES
	Attendance is required; and university regulations in this regard are strictly applied. It is important to note the following:
1. Commitment and Attendance	 The student is expected to follow all announcements issued by the university, faculty, department as well as the course instructor through the official channels. It is the student's full responsibility to get aware of these announcements and to react accordingly.
	 The student has to communicate electronically with the course instructor, whenever needed, through the official channels exclusively which are limited to the AAUP email and Moodle messages only.
	3. The student is expected to attend all classes* and to arrive at classroom on time.
	 If the instructor is late for class, the student must wait for at least 10 minutes before leaving the classroom.
	 Absence by more than 25% of classes leads to an automatic withdrawal from the course (the grade W is assigned).
	The student must perform all course assessment activities, i.e. assignments, quizzes, exams etc. It is important to note the following:
2. Performance of assessment activities	 Absence from an exam or a quiz other than the final exam leads to a zero mark in that exam or quiz. An exception allowing a makeup is made for a student submitting a legitimate excuse that is accepted by the instructor in a timely manner.
	 Absence from the final exam leads to an FA grade that eventually turns to an F grade. An exception allowing a makeup exam is made if the student submits an official excuse that is accepted by the Academic Affairs in compliance with the university regulations.

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	Co	ourse Syllabus				
		be honest during the performance of assessment activities. While y, the following actions are examples of cheating:				
	1. Copying from o	1. Copying from other students.				
3. Academic Integrity	2. Using materials	2. Using materials that are not authorized by the proctor during quizzes or exams.				
	3. Collaborating w	3. Collaborating with other students during quizzes or exams.				
	4. Stealing or buy	Stealing or buying the content of exams, quizzes, and assignments.				
	5. Stealing ideas	Stealing ideas and work of others and presenting them as that of the student				
	The university uses the let	ter grading system. It is important to note the following:				
4. Grading	1. The passing gr the end of the s	ade is D, and the corresponding score (out of 100) is determined at semester.				
	2. At the end of th	ne semester, the scale of scores is determined by converting each				
	Lectures	Class sessions involve lectures, video shows, case studies, discussions, debates, and power-point presentations on topics and current issues related to the course contents.				
5. Learning and teaching methods	Readings	This must be a key responsibility to each student. Students should read the relevant parts of the textbook and other materials before class. They should be prepared to raise questions and to get engaged in arguments on related topics in the class schedule.				
	In class learning activities	Students are encouraged to learn actively individually and cooperatively in groups. Students are expected to engage with the material, participate in the class, and collaborate with each other. Students will be asked to analyze an argument, demonstrate role play, discuss case studies, make presentations, or apply a concept to a real-world situation.				
	Outside class learning acti	ivities The course instructor assigns projects and home assignments to students individually or in groups.				
	Feedback	The instructor provides the students with feedbacks on their performance throughout the course, which can help them to realize their weaknesses and work harder to improve their performance.				
	Online learning	Online learning platforms are utilized to provide students with additional resources as well as a continuous access to the course material beyond the classroom.				
C. COURSE DETAILS						
 Histology is a discipline which examines the structure and correlating functions of tissues an cells using light microscopy, electron microscopy and other specialized microscopic methods. This course will involve a study of general tissue characteristics and will explore histological and ultrastructurally the different tissue types in the body including: epithelial, connective, skeletal, muscular, neurological tissues as well as some organ systems including connective, state the different provide the different state of the body including. While the course including connective, skeletal, muscular, neurological tissues as well as some organ systems including. 						

cardiovascular, blood, lymphoid and integumentary (skin) tissues. While the course's emphasis will be a study of the appearance of normal cells and tissues, selected

abnormal/diseased tissues will be examined as well (e.g., bone osteoporosis) and functional

purpose

correlations will be made.

AAO-P05-R01 4 2022/1/10

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		Upon the completion of the course, students will be able to achieve the following learning outcomes:					
	CLO1	Understand the basic concepts of tissue slides preparation, types of microscopes and other histo-techniques used for histological examination.					
	CLO2	Recognize identify and describe the characteristic structures of cells, tissues and organ systems of the body at the light microscope histologic level, and for selected tissues, at the electron microscopic ultrastructural level					
2. Course learning	CLO3	Datail, the basis functions of colls and collular organollos, tissues and organ systems					
outcomes (CLOs)	CLO4	Contrast understand the characteristics of the basic tissue types of the body (epithelium, connective, muscle, nerve).					
	CLO5	Summarize how the basic tissues combine and relate to form organs in various body systems, which operate together to maintain homeostasis					
	CLO6	Identify and understand the histological features of selected tissues/organ systems resulting from disease processes (e.g. osteoporosis).					
	CLO7	Incorporate communication skills by effective interaction with peers and academic staff					
	Assessment tool		Weight %	CLOs	Due week		
	Quiz		20%	1,2,3			
3. Assessments	Mid. Term		30%	1,2,3,4,5,6,7	8		
	Final Exam		50%	1,2,3,4,5,6,7	16		
		Total	100%				

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ment	Outcomes	CLO 1	CLO 2	CLO 3	CLO 4	CLO 5	9 CLO 6	CLO 7
assessi	1 - Quiz	\checkmark	\checkmark	\checkmark				
4. CLOs assessment	2 - Mid. Term	\checkmark						
4	3 - Final Exam	\checkmark						

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	Week	Topics	Study material	Assignment	CLOs
	1	Histology & Its Methods of Study: • Introduction• Preparation of Tissues for Study• Light Microscopy• Electron Microscopy• Autoradiography• Enzyme Histochemistry• Visualizing Specific Molecules	Junqueira Basic Histology, Chapter: 1		1
	2	<u>The Cytoplasm and the Nucleus (Review)</u>	Junqueira Basic Histology, Chapters: 2+3		2,3
	3	<i>Epithelial Tissue</i> • Characteristic Features of Epithelial Cells• Specializations of the Apical Cell Surface• Types of Epithelia• Transport Across Epithelia• Renewal of Epithelial Cells	Junqueira Basic Histology, Chapter: 4		2,3,4,6, 7
	4	Epithelial Tissue • Characteristic Features of Epithelial Cells• Specializations of the Apical Cell Surface• Types of Epithelia• Transport Across Epithelia• Renewal of Epithelial Cells	Junqueira Basic Histology, Chapter: 4		2,3,4,6, 7
5. Course schedule	5	Connective Tissue • Cells of Connective Tissue• Fibers• Ground Substance• Types of Connective Tissue	Junqueira Basic Histology, Chapter: 5		2,3,4,6, 7
	6	Connective Tissue • Cells of Connective Tissue• Fibers• Ground Substance• Types of Connective Tissue	Junqueira Basic Histology, Chapter: 5		1,2,3,4, 6,7
	7	Adipose Tissue • White Adipose Tissue• Brown Adipose Tissue	Junqueira Basic Histology, Chapter: 6		2,3,4,6, 7
	8	<i>Cartilage</i> • Hyaline Cartilage• Elastic Cartilage• Fibrocartilage• Cartilage Formation, Growth, & Repair	Junqueira Basic Histology, Chapter: 7		2,3,4,6, 7
	8	Mid. Term			
	9	Bone • Bone Cells• Bone Matrix• Periosteum & Endosteum• Types of Bone• Osteogenesis• Bone Remodeling & Repair• Metabolic Role of Bone• Joints	Junqueira Basic Histology, Chapter: 8		2,3,4,5, 6,7
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	Week	Topics	Study material	Assignment	CLOs
	10	 Nerve Tissue & the Nervous System Development of Nerve Tissue Neurons Glial Cells & Neuronal Activity Central Nervous System Peripheral Nervous 	Chapter: 9		2,3,4,6, 7
	11	System• Neural Plasticity & Regeneration <u>Muscle Tissue</u> • Skeletal Muscle• Cardiac Muscle• Smooth Muscle• Regeneration of Muscle Tissue	Junqueira Basic Histology, Chapter: 10		2,3,4,6, 7
	12	<i><u>The Circulatory System</u></i> • Heart• Tissues of the Vascular Wall• Vasculature• Lymphatic Vascular System	Junqueira Basic Histology, Chapter: 11		2,3,5,6, 7
5. Course schedule	13	Blood and Hemopoiesis • Composition of Plasma• Blood Cells• Stem Cells, Growth Factors, Differentiation• Bone Marrow• Maturation of Erythrocytes• Maturation of Granulocytes• Maturation of Agranulocytes• Origin of Platelets	Junqueira Basic Histology, Chapter: 12+13		2,3,5,6, 7
	14	<i>The Immune System & Lymphoid Organs</i> • Innate & Adaptive Immunity• Cytokines• Antigens & Antibodies• Antigen Presentation• Cells of Adaptive Immunity• Thymus• Mucosa-Associated Lymphoid Tissue• Lymph Nodes• Spleen	Junqueira Basic Histology, Chapter: 14		2,3,5,6, 7
	15	<u>Skin</u> • Epidermis• Dermis• Subcutaneous Tissue• Sensory Receptors• Hair• Nails• Skin Glands• Skin Repair	Junqueira Basic Histology, Chapter: 18,		2,3,5,6, 7
	16	Revision			1,2,3,4, 5,6,7
	16	Final Exam			

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Course Syllabus

D. COURSE MATERIAL					
1. Textbook	Junqueira's Basic Histology (Text and Atlas), Last Edition. By Anthony L. Mescher. McGraw-Hill Education.				
2. Reference material	Color Atlas and Text of Histology, Last Edition, by Leslie P. Gartner PhD. Wolters KluwerJournal of Histology & Histopathology.				
3. Internet resources	 <u>http://www.histology-world.com/</u> <u>http://www.histologyguide.com/</u> <u>https://vmicro.iusm.iu.edu/hs_vm/toc.htm</u> 				