Faculty of Medicine

Major: Doctor of Medicine

Academic Year: 2022/2023

Subject: Principles of Histology

COURSE SYLLABUS

File's Copy

+962 6 479 5555 info@isums.edu.jo
Qastal - Amman 16197 Jordan القسطل - عمّان 16197 الأردن

www.isums.edu.jo

1. Course information:

Theory		Practical	
Course Title:	Principles of Histology	**Course Title:**	Principles of Histology
Course Code:	1001102	**Course Code:**	1001102
Co-Requisite:		**Co-Requisite:**	
Prerequisite:		**Prerequisite:**	
Course Credit Hours:	2	**Course Credit Hours:**	1
Class Location:	Faculty of Medicine	**Class Location:**	Histology Lab
Department:		Basic Medical Sciences	
Final Qualification:			

2. Instructor Contact Information:

Coordinator:	Dr. Amira Adly Mohammed Kassab
Instructor(s):	Dr. Amira Adly Mohammed Kassab
Email:	Amirakassab@isums.edu.jo
Office:	at Faculty of Medicine
Office Hours:	Monday, 12-2 PM Wednesday, 12-2 PM

3. Course Description:

- Histology is the science of studying tissues of the human body under a microscope.
- Four main tissues will be studied; epithelium, connective, muscle and nerve tissues.
- The histological structure of the above-mentioned tissues will be described and observed under the light and electron microscopy.
- How to prepare a histological section from body tissues and how to use microscopes to examine the section.
- The structure of the skin will be studied and described under the microscope.

4. Resources Available to Students:

Books: Junqueira's basic histology

5. Teaching Methods

a. Lectures.
b. Discussion and problem solving.
c. Individual and groups activities.
d. In- class coopetition.

6. Intended Learning Outcomes (ILOs):

Upon successful completion of this course students will be able to …

1. Identify different processing and staining techniques to prepare a histological section from different body tissues.
2. Use the microscope efficiently and handle the histological glass slides and examine them using the maximum microscope facilities.
3. Identify the different body tissues under the microscope.
4. Understand and describe the histological structure of the four basic tissues of the human body.
5. Recognize the structural difference between the body tissues by using light and electron microscopy.
6. Identify different types of the epithelial tissue under light microscope and the structural specialization of their cell surfaces.
7. Understand the main components of the connective tissue.

8. Differentiate between different types of connective tissue under the microscope.
9. Understand the histological structure of the cartilage and differentiate between its types.
10. Understand and identify the histological structure of bone and its different histological types.
11. Understand and differentiate between the different types of ossification.
12. Identify and describe the structure of the different muscles and differentiate between them.
13. Describe the general structural characteristics of the nervous tissue.
14. Identify the structure of the nerve cells, neuroglial cells, nerve trunk and nerve ganglia.
15. Identify the histological structure of the skin and its types under the light microscopy.
16. Describe the layers of the skin; epidermis, dermis and hypodermis and identify the different types of the sensory receptors of the skin.

7. Course Policies:

To be explained to students at the first meeting:

1. **Attendance Policies:**

A. Attendance Policy (absences and tardiness for a traditional course):

a. Students must attend all classes of this course.

b. Any student with an absence of 15% of the classes of any course, will be illegible to sit for the final exam and will result in a failing grade being assigned in this course.

c. Excused absences include documented illness, deaths in the family, and other documented crises, call to active military duty or jury duty, religious holy days, and official University activities. These absences will be accommodated in a way that does not arbitrarily penalize students who have valid excuses. Consideration will also be given to students whose dependent children experience serious illnesses.

~~d.~~ Students with a legitimate reason to miss a required activity must request an approved absence through Student Academics. Unexcused absence from a scheduled examination or quiz may result in (0 %) being assigned for that assessment. Unexcused absence from an activity for which attendance is may be considered an issue of Professionalism.

e. Any student who arrives late will not be allowed to attend the class and will be marked absent.

B. Exam Attendance:

a. A student who is more than 10 minutes late, will not be permitted to submit the exam.

b. A student who is late more than 30 minutes will not be permitted to submit the final exam, and no student will be permitted to leave the exam center before the elapse of 30 minutes.

2. Exams Policies:

a. Students are expected to take their exams on time and as scheduled by their instructors.

b. Student who are unable to take (quiz, midterm or final) exam due to any reason should contact their instructor immediately.

c. Make-up exams are of the responsibility of faculty committee.

d. A final exam, paper, or project is required in all courses.

e. Seminars and workshops are included in evaluation criteria.

f. Only registered undergraduate and graduate credit students are allowed to take final exams.

g. If you are unable to take the final exam at the scheduled time without any acceptable excuse, you may not be allowed to rearrange the final exam separately (Make-up).

h. If you attend the final exam and do not submit the exam sheet, or do not complete the exam for any reason, you are not allowed to complete the final exam at another time or appeal for a final make-up exam and will be assigned falling for the final exam.

i. If you do not take your final exam and did not withdraw from the course by the withdrawal deadline you will assign a failing grade for the final exam.

3. Cheating Policies: Cheating is officially defined as giving or attempting to give, obtaining or attempting to obtain, information relative to an examination or other work that the student is expected to do alone and not in collaboration with others, or the use of material or information restricted by the instructor. Plagiarism is no lesser an offense than cheating, it means repeating another's sentences as your own, adopting a particularly apt phrase as your own, paraphrasing someone else's argument as your own, and presenting someone else's line of thinking in the development of a thesis as though it were your own.

4. Penalty for cheating and plagiarism: The failing grade, shall be assigned for that piece of work to any students cheating or plagiarizing.

5. Mobiles: Mobile phones should be kept turned off or silent while in class. Usage of mobile phones is not allowed in classes in any form (talking and/or texting).

8. Grading System

Points	A	A-	B+	B	B-	C+	C	D+	D	F
Grade	4	3.75	3.5	3	2.75	2.5	2	1.5	1	0.5

Grade	Mark range	Symbols
Excellent	100-90	A
	89-85	A-
Very Good	84-80	B+
	79-75	B
Good	74-70	B-
	69-65	C+
Satisfactory	64-60	C
Weak	59-50	D+
	49-40	D
	39-30	F

9. Intended learning outcomes and Assessment Tools Martix:

ILOs / Assessment Tool	ILO1	ILO2	ILO3	ILO4	ILO5	ILO6-16	Weight of Assessment tool %
Assignments							
Quizzes and other assessments							
First exam							
Second exam							
Midterm exam	*	*	*	*	*	*	40
Final exam				*	*	*	40
Practical exam	*	*	*	*	*	*	20
Weight %	5	5	10	10	10	60	100%

10. Course Grading Criteria:

Assessment Tools	Weight (100%)	Description
Exams (Midterm and Final)	80%	- MCQs
Practical exam	20%	- Objective Structured Practical Examination (OSPE)

11.Course Outlines/ Schedule:

Week	Topic	Chapter	Reference	Estimated number of hours	Teaching method		ILOs
					Theoretical Lectures	Practical Laboratories	
1	Microtechniques1 Microtechniques2 Epithelium 1	**1** **2**	Junqueira's Basic Histology	**1** **2**	 *	* * 	**1&2** **1&2** **3-6**
2	Epithelium 2 Epithelium 3	**4** **4**	Junqueira's Basic Histology	**3**	* *	* *	**3-6** **3-6**
3	Connective tissue	**5**	Junqueira's Basic Histology	**3**	*	*	**3,4,5,7&8**
4	Connective tissue	**5&6**	Junqueira's Basic Histology	**3**	*	*	**3,4,5,7&8**
5	Cartilage	**7**	Junqueira's Basic Histology	**3**	*	*	**9**
6	Bone	**8**	Junqueira's Basic Histology	**3**	*	*	**10**
7	Ossification	**8**	Junqueira's Basic Histology	**3**	*	*	**11**

8	Muscle tissue	**10**	Junqueira's Basic Histology	**3**	*	*	**12**
9	Muscle tissue	**10**	Junqueira's Basic Histology	**3**	*	*	**12**
10	Nerve tissue	**9**	Junqueira's Basic Histology	**3**	*	*	**13&14**
11	Nerve tissue	**9**	Junqueira's Basic Histology	**3**	*	*	**13&14**
12	Integumentary system	**18**	Junqueira's Basic Histology	**3**	*	*	**15&16**
13	Revision			**3**	*	*	