

**University of Jordan
School of Medicine
MD Program Curriculum**

Course Title: Introduction to Histology

Credit Hours: 2 credits

Academic Year Level: 1st year, 2nd semester

Course Coordinator: Dr. Heba Kalbouneh

School of Medicine

Ground floor

Office number 4

Contact by Coordinator: heba.kalbouneh@ju.edu.jo

heba.kalbouneh@gmail.com

A. Course Objectives

Lecture topics and laboratory experiences incorporate the basic topics in microscopic anatomy of the human body. The course deals with basic tissues (epithelium, connective tissue (including: adipose tissue, bone and cartilage), muscles and nerves).

The knowledge that you will derive from this course will extend what you learn in Gross Anatomy. In addition, your study of cells, tissues and organs will correlate with information on their function that you receive in this and other courses. This course will also provide basic knowledge concerning the structure and function of normal cells, tissues and organs, which is a prerequisite for the study of their pathology.

In the lectures (1hour/week), the normal microscopic and submicroscopic structure of cells and tissues of the body are described (by using animations to illustrate basic histological principles, integrate histological structure with physiological function, and assist students to create mental pictures as they learn) . In Laboratory sessions (1hour/week), you will examine and analyze the materials being studied using both light and electron microscopy micrographs. Students should be able to differentiate the various histological structures from each other. Functional correlations often with some elements of clinical significance are presented throughout the course.

B. Learning Outcomes:

Upon completion of this course, students will be able to:

- 1- describe the detailed structure of the cell organelles under electron microscope and label normal cell structure
- 2- describe normal cell function
- 3- identify the organization of normal cells into tissues
- 4- recognize and differentiate the type of tissue under light microscope of H&E stained slides
- 5- identify the differential characteristics of cells, tissues, and organs
- 6- recognize the variations in structure that fall within the normal range
- 7- explain the relationships of structure and function
- 8- learn to compare normal with abnormal tissues at the light microscopic level
- 9- describe the histology of tissue using appropriate medical terminology
- 10- demonstrate critical thinking skills to describe possible pathologic outcomes of dysfunctional cells and tissues
- 11- develop communication skills by effective interaction with peers and academic staff
- 12- deal with colleagues in an honorable and generous way

C. Learning Resources:

1. The recommended book: Junqueira's Basic Histology, Text and Atlas, 14th edition, By Anthony L. Mescher
2. Histology exercises and quizzes that consist of multiple-choice questions will be available for each module of study.
3. An online chat session will be available at the end of each course to address questions related to the lectures and laboratory sessions.
4. Optional Textbooks: Color Textbook of Histology, 4th edition, by Leslie P. Gartner and James L. Hiatt.
5. Web based resources: <http://www.histologyguide.org/index.html>

D. Course Outline:

Week number	Theory	Practical
1	Overview of histology	-----
2	Cell overview	Microscopes and Microtechniques
3	Epithelium 1	Cell review
4	Epithelium 2	Epithelium-1
5	Connective tissue-1	Epithelium-2
6	Connective tissue-2	Revision- Quiz
7	Cartilage	Connective tissue-1
8	<i>Midterm exam</i>	
9	Bone1	Connective tissue-2
10	Bone2	Cartilage
11	Muscle	Bone-1
12	Nervous tissue	Bone-2
13	Skin 1	Skin
14	Skin 2	Revision- Quiz

E. Weighting of Assessments

Assessment 1: Midterm Exam 30%

Assessment 2: Final Exam 60% (30% theory, 30% practical)

Attendance: 10%

F. Course Policies

Attend Class

Students are expected to attend all class sessions as listed on the course calendar. All students are required to wear a lab coat during the laboratory session.

Build Rapport

If you find that you have any trouble keeping up with any aspect of the course, make sure you let your instructor know as early as possible. As you will find, building rapport and effective relationships are key to becoming an effective professional. Make sure that you are proactive in informing

your instructor when difficulties arise during the semester so that they can help you find a solution.

Commit to Integrity

As a student in this course (and at this university) you are expected to maintain high degrees of professionalism, commitment to active learning and participation in this class and also integrity in your behavior in and out of the classroom.