



مركز الاعتماد
وإضمان الجودة
ACCREDITATION & QUALITY ASSURANCE CENTER



The University of Jordan

Accreditation & Quality Assurance Center

Course Syllabus

Histology for dental students II

1	Course title	Histology-II
2	Course number	0542227
3	Credit hours (theory, practical)	3 (2 theory, 1 practical)
	Contact hours (theory, practical)	Theory: 2 Practical: 1
4	Prerequisites	Histology for dentistry I
5	Program title	DDS program
6	Program code	13
7	Awarding institution	The University Of Jordan
8	Faculty	School of Medicine
9	Department	Anatomy and Histology
10	Level of course	Second year dental students
11	Year of study and semester (s)	2016/2017 second semester
12	Final Qualification	DDS
13	Other department (s) involved in teaching the course	None
14	Language of Instruction	English
15	Date of production/revision	1/9/2016

16. Course Coordinator:

Dr. Amjad Al-Shatarat

a.shatarat@ju.edu.jo

17. Other instructors:

Mrs. Ihsan Al-Omari (BSc, MSc)

18. Course Description:

This course covers the General Histology for different types of tissues of the body systems.

19. Course aims and outcomes:**A- Aims:**

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.

B- Intended Learning Outcomes (ILOs):

Upon successful 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

20. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Cardio-vascular system	1,2	Dr. Amjad Al-Shatarat	<p>Identify general structure of the heart wall.</p> <p>Identify general structure of the wall of blood vessels.</p> <p>List arteries (large, medium sized)</p> <p>List veins (large, medium sized)</p> <p>Discuss the structure of special types of arteries and veins.</p> <p>Discuss the arteriovenous connection; capillaries, sinusoids and arteriovenous anastomosis.</p>	<p>Assignments and quizzes</p> <p>Midterm Exam</p> <p>Final exam</p>	Junqueira's Basic Histology
Lymphatic and immune system	3,4	Dr. Amjad Al-Shatarat	<p>Identify structure of lymph vessels.</p> <p>Understand the distribution and structure of lymphoid tissue.</p> <p>Discuss structure and function of lymphatic nodule</p> <p>List lymphocytes and immune cells</p> <p>Understand the reaction of B&T lymphocytes to antigens.</p> <p>Discuss common mucosal immune system.</p>	<p>Assignments and quizzes</p> <p>Midterm Exam</p> <p>Final exam</p>	Junqueira's Basic Histology

			<p>Discuss the Structure and function of lymphatic organs: Lymph nodes. Spleen thymus Tonsils</p> <p>Understand the Mononuclear phagocytic system. Describe antigen presenting cells.</p>		
Digestive system	5,6	Dr. Amjad Al-Shatarat	<p>Describe the oral cavity</p> <p>Discuss Salivary glands</p> <p>Identify the palate and Pharynx</p> <p>Recognize pharynx; structure and function.</p> <p>Discuss pharangeal and palatine tonsil.</p> <p>Understand digestive tract.</p> <p>Discuss cell renewal in GIT.</p> <p>List Junctions; gastro-oesophageal, pylorodudenal and rectoanal.</p> <p>Describe Pancreas: Exocrine portion and pancreatic secretion and Endocrine portion.</p> <p>Describe Liver</p> <p>Identify bile canaliculi.</p> <p>Understand the blood supply</p>	<p>Assignments and quizzes</p> <p>Midterm Exam</p> <p>Final exam</p>	Junqueira's Basic Histology

			of the system.		
			Recognize structure and function of gall bladder.		
Respiratory system	7,8	Dr. Amjad Al-Shatarat	<p>Identify structure and function of conducting portion of the respiratory system.</p> <p>Discuss the structure and function of the respiratory portion</p> <p>Identify respiratory barriers.</p> <p>Define Lung lobules.</p> <p>Discuss structure of the pleura.</p> <p>Describe structure of the fetal lungs.</p> <p>Understand blood supply, lymphatics and smooth muscle.</p> <p>Understand innervation of the lung.</p> <p>Discuss non respiratory function of the lung.</p>	<p>Assignments and quizzes</p> <p>Midterm Exam</p> <p>Final exam</p>	Junqueira's Basic Histology
Endocrine system	9, 10	Dr. Amjad Al-Shatarat	<p>Recognize the main components of endocrine system.</p> <p>Discuss Pituitary gland.</p> <p>Discuss Thyroid gland.</p> <p>Discuss Parathyroid gland.</p> <p>Discuss Suprarenal gland Development (cortex and medulla).</p>	<p>Assignments and quizzes</p> <p>Midterm Exam</p> <p>Final exam</p>	Junqueira's Basic Histology

			<p>Discuss Paraganglia: Structure and function.</p> <p>Discuss Pineal gland.</p>		
Urinary system	11, 12	Dr. Amjad Al-Shatarat	<p>Discuss Kidney :General structure; cortex and medulla.</p> <p>Understand nephron structure; renal corpuscle, proximal tubules, loop of Henle and distal tubules.</p> <p>Discuss the filtration barrier.</p> <p>Define Collecting tubules.</p> <p>Understand renal blood supply; glomerular and non glomerular blood.</p> <p>Define renal interstitium.</p> <p>Discuss urinary passages.</p> <p>Define Ureter.</p> <p>Understand the urinary bladder</p> <p>Compare between Male and female urethra.</p>	<p>Assignments and quizzes</p> <p>Midterm Exam</p> <p>Final exam</p>	Junqueira's Basic Histology
Male reproductive system	13,14	Dr. Amjad Al-Shatarat	<p>Discuss Testis:</p> <p>Describe capsule and outlines of internal structure.</p> <p>Identify seminiferous tubules.</p> <p>List spermatogenic cells.</p> <p>Understand spermatogenesis; spermatocytogenesis and spermiogenesis.</p>	<p>Assignments and quizzes</p> <p>Midterm Exam</p> <p>Final exam</p>	Junqueira's Basic Histology

			<p>Discuss spermatozoa.</p> <p>Understand sertoli cells and blood testicular barrier.</p> <p>Define interstitial cells of Leydig.</p> <p>Understand hormonal basis of testicular function.</p> <p>Discuss Male genital ducts.</p> <p>Describe accessory male genital tracts; structure and function.</p> <p>Identify Penis.</p>		
Female reproductive system	15, 16	Dr. Amjad Al-Shatarat	<p>Describe ovary; structure and function: Ovarian follicles.</p> <p>Understand ovulation.</p> <p>Discuss ovarian hormones and ovarian cycle.</p> <p>Identify uterine (fallopian tubes) structure and function.</p> <p>Describe uterus; structure and function.</p> <p>Understand menstrual cycle.</p> <p>Describe cervix.</p> <p>Discuss fertilization and preimplantation development.</p> <p>Identify placenta.</p> <p>Describe Vagina; structure and function.</p>	<p>Assignments and quizzes</p> <p>Midterm Exam</p> <p>Final exam</p>	Junqueira's Basic Histology

			<p>Discuss External genitalia; structure and function.</p> <p>Discuss Mammary gland: Structural organization in different physiological states.</p>		
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21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

- Powerpoint presentations
- Using animations to illustrate basic histological principles, integrate histological structure with physiological function, and assist students to create mental pictures as they learn.
- Histology exercises and quizzes that consist of multiple-choice questions will be available for each module of study.
- An online chat session will be available at the end of each course to address questions related to the lectures and laboratory sessions.
- Web based resources: <http://www.histologyguide.org/index.html>

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

Assessment 1: Midterm Exam 40%

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

23. Course Policies:

A- Attendance policies:

Students are expected to attend all class sessions as listed on the course calendar. Students are not **allowed** to be **absent** for more than **15%** of the credit hours of the course. All students are required to wear a lab coat during the laboratory session.

B- Absences from exams and handing in assignments on time:

Make-up appeals are considered only for students who provide documentation of a

compelling reason for missing the exam.

C- Health and safety procedures:

college Members and students must at all times, conform to Health and Safety rules and procedures.

D- Honesty policy regarding cheating, plagiarism, misbehavior:

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. Students violate this policy would be subjected to disciplinary action according to University of Jordan disciplinary policies

E- Grading policy:

Grade-point average according to grading policy at University of Jorda

F- Available university services that support achievement in the course:

Internet database at the University of Jordan
The University of Jordan library

24. Required equipment:

Electronic computer laboratory

25. References:

A- Required book (s), assigned reading and audio-visuals:

Junqueira's Basic Histology, Text and Atlas, 14th edition, By Anthony L. Mescher

B- Recommended books, materials, and media:

Color Textbook of Histology, 4th edition, by [Leslie P. Gartner and James L. Hiatt](#).

Web based resources: <http://www.histologyguide.org/index.html>

26. Additional information:

Name of Course Coordinator: -----Signature: ----- Date: --

----- Head of curriculum committee/Department: -----

Signature: -----

Head of Department: ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: -----Signature: -----

Copy to:
Head of Department
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