



مركز الاعتماد  
وإضمان الجودة  
ACCREDITATION & QUALITY ASSURANCE CENTER



**The University of Jordan**

**Accreditation & Quality Assurance Center**

## **Course Syllabus**

**Course Name:**

Pathology 1 For dentistry

1	Course title	Pathology 1 For dentistry
2	Course number	05344311
3	Credit hours (theory, practical)	3.0
	Contact hours (theory, practical)	
4	Prerequisites/corequisites	None
5	Program title	Doctor of dentistry
6	Program code	
7	Awarding institution	University Of Jordan
8	Faculty	Faculty of Medicine
9	Department	Pathology & Microbiology and Forensic medicine
10	Level of course	3
11	Year of study and semester (s)	1 <sup>st</sup> Semester 3 <sup>rd</sup> year
12	Final Qualification	
13	Other department (s) involved in teaching the course	
14	Language of Instruction	English
15	Date of production/revision	26/10/2016

#### 16. Course Coordinator:

*Dr. Maha Shomaf*

Office numbers: 23500

##### **Office hours**

<b>Day/Time</b>	<b>Sunday</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>
	TBD	TBD	TBD	TBD	TBD

email addresses: [mshomaf@ju.edu.jo](mailto:mshomaf@ju.edu.jo)

#### 17. Other instructors:

*Dr. Nisreen Abo Shahin*

*Dr. Tariq Alaidly*

**18. Course Description:**

*This three-credit hour course is mandatory for third-year dental students. The course is designed to introduce dental students to pathology via covering the basic pathology including cell injury, inflammation, neoplasia, and circulatory disorders. \in addition diseases of cardiovascular, respiratory and hematology systems are covered in the first semester.*

**19. Course aims and outcomes:**

**A- Aims:**

The overall objective is to:

- 1) Learn the pathophysiology of cell injury, inflammation, neoplasia and circulatory disorders.
- 2) know the causes of cell injury, inflammation (acute and chronic) along with knowing the genetic basis and environmental causes of neoplasms.
3. To know the morphological changes of necrotic and apoptotic cells, acute and chronic inflammation and how to differentiate morphologically between benign and malignant neoplasms.
4. To link the pathophysiology of these disorders with the clinical manifestations.
5. To know some important cardiovascular, respiratory and hematological disorders

**B- Intended Learning Outcomes (ILOs):** Upon successful completion of this course students will be able to ... Successful completion of the course should lead to the following outcomes:

A. **Knowledge and Understanding:** Student is expected to

- A1- List causes of adaptations, reversible cell injury, necrosis, and apoptosis
- A2- To know the pathophysiology of reversible and irreversible cell injury in the form necrosis and apoptosis
- A3- To differentiate between causes, pathophysiology and morphology of necrosis and apoptosis
- A4- To know pathophysiology of chemical injury
- A5- To know the types of pigments that deposited in the body either exogenous or endogenous
- A6- To know the causes of inflammation
- A7- To know the pathophysiology of inflammation (acute and chronic)
- A8- To know the morphologic patterns of acute inflammation
- A9- To know mediators of inflammation
- A10- To know outcomes and clinical manifestations of inflammation
- A11- To know the cells that are implicated in the pathogenesis of acute and chronic inflammation
- A12- To know the types of cells in the body and how they respond to cell injury (labile, stable and permanent)
- A13- To know the types and pathogenesis of healing (regeneration and scar)
- A14- To know the differences between wound healing types (primary and secondary intention)
- A15- To know the causes of delay in wound healing
- A16- To know the meaning of proud flesh and keloid
- A17- know the definition of edema, hyperemia and congestion, thrombosis, and emboli
- A18- To know the causes and clinical manifestations of edema, and thrombosis
- A19- To know the types of emboli (thromboemboli, fat emboli and air emboli) and their clinical manifestations
- A20- To know the pathogenesis, complications and clinical manifestations of atherosclerosis
- A21- To know the pathogenesis of primary hypertension
- A22- To know the causes of secondary hypertension
- A23- To know the types of aneurysms and their clinical manifestations
- A24- To know the differences between different types of vasculitis (giant cell arteritis, Takayasu, Kawasaki)
- A25- To know the clinical manifestations of vasculitis
- A26- To know tumors of blood vessels such as Kaposi sarcoma, pyogenic granuloma, capillary and cavernous hemangioma
- A27- To know the pathogenesis of ischemic heart diseases
- A28- To know the definition of angina and its types
- A29- To know the pathogenesis of myocardial infarction and its clinical manifestation
- A30- To know the changes in the heart due to myocardial infarction
- A31- To know about effects of hypertension on heart

A32- To know different types of cardiomyopathy and their causes

A33- Know some types of heart tumors

A34- To know the definition of different types of respiratory diseases, pathogenesis and clinical manifestations including atelectasis, obstructive lung disease such as emphysema, chronic bronchitis, bronchiectasis and asthma, restrictive lung diseases such as idiopathic pulmonary fibrosis, asbestosis, and sarcoidosis

A35- To know the pathogenesis , causes and clinical manifestations of tuberculosis

A36- To know the pathogenesis of lung carcinoma, its different types and its clinical manifestations

A37- To know the types of anemia and their causes including iron deficiency anemia, vit B12 deficiency anemia, hemolytic anemias, aplastic anemia and their clinical manifestation

A38- To know types and subtypes of acute and chronic leukemias (ALL, AML, CML. CLL) and their clinical manifestations

A39- To know the different type of lymphomas including hodjkin and non-Hodgkin lymphomas and their clinical manifestations.

**B. Intellectual Analytical and Cognitive Skills:** Student is expected to

B1- Ability to the thee pathophysiology of diseases

B2-Ability to make approach to disease from clinical signs and symptoms

B3-Ability to differentiate diseases from each other

B4- Ability to integrate multiple morphologic findings to reach the correct diagnosis

## 20. Topic Outline and Schedule:

Topic	Week	Reference	ILOs	Instructor	Evaluation Methods
Cell injury	1 and 2	Robbins Basic Pathology: 9 <sup>th</sup> edition. Vinay Kumar, Abul k Abbas. Jon C Aster	A1-5		
Inflammation	2+3	Robbins Basic Pathology: 9 <sup>th</sup> edition. Vinay Kumar, Abul k Abbas. Jon C Aster	A6-11		
Healing and repair	3	Robbins Basic Pathology: 9 <sup>th</sup> edition. Vinay Kumar, Abul k Abbas. Jon C Aster	A12-16		
Neoplasia	4+5	Robbins Basic Pathology: 9 <sup>th</sup> edition. Vinay Kumar, Abul k Abbas. Jon C Aster	A17-19		
Circulatory	6+8	Robbins Basic Pathology: 9 <sup>th</sup> edition. Vinay Kumar, Abul k Abbas. Jon C Aster	A23-37		
Cardiovascular system	8+9	Robbins Basic Pathology: 9 <sup>th</sup> edition. Vinay Kumar, Abul k Abbas. Jon C Aster	A20-33		

Respiratory system	10+11	Robbins Basic Pathology: 9 <sup>th</sup> edition. Vinay Kumar, Abul k Abbas. Jon C Aster	A34-36		
Hematopathology	12+13	Robbins Basic Pathology: 9 <sup>th</sup> edition. Vinay Kumar, Abul k Abbas. Jon C Aster	A37-39		

## 21. Teaching Methods and Assignments:

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

Teaching Method	ILO/s
Lectures and Discussions:	<b>100%</b>
Homework and Assignments:	<b>0%</b>
Projects:	<b>0%</b>
Presentation	<b>0%</b>

## 22. Evaluation Methods and Course Requirements:

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

Evaluation	Point %	Date
Midterm Exam	40%	TBD
Project	0	
Assignments	0	
Homework	0	
Final Exam	60%	TBD

**23. Course Policies:**

A- Attendance policies:

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

C- Health and safety procedures:

D- Honesty policy regarding cheating, plagiarism, misbehavior:

E- Grading policy:

According to the rules and regulations of the University of Jordan

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

**24. Required equipment:****25. References:****Main Reference/s:**

Robbins Basic Pathology: 9th edition. Vinay Kumar, Abul k Abbas. Jon C Aster

**2٦. Additional information:**

For more details on University regulations please visit:  
<http://www.ju.edu.jo/rules/index.htm>

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

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

Head of Department: Prof. Abdelkader Battah Signature: -----

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

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

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Assistant Dean for Quality Assurance  
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