



Course Specifications

Course Title:	Pathophysiology for nursing
Course Code:	5603325-2
Program:	BSN
Department:	Pathology Department
College:	College of Nursing
Institution:	Umm Al Qura University

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A. Course Identification

1. Credit hours: 2 hours/weeks			
2. Course type			
a.	University <input type="checkbox"/>	College <input checked="" type="checkbox"/>	Department <input type="checkbox"/>
b.	Required <input checked="" type="checkbox"/>	Elective <input type="checkbox"/>	Others <input type="checkbox"/>
3. Level/year at which this course is offered: Third year Nursing students, first semester			
4. Pre-requisites for this course (if any): Successful completion of second year			
5. Co-requisites for this course (if any): None			

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom		
2	Blended		
3	E-learning		80%
4	Distance learning		20%
5	Other		

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	2hours/week/12=24 hours
2	Laboratory/Studio	
3	Tutorial	
4	Others (specify) Workshops	6hrs/semester
	Total	30 hours

B. Course Objectives and Learning Outcomes

1. Course Description

This course aims to give the students an insight into the fundamental mechanisms of pathological processes. It helps students to understand the principles of disease etiology, pathogenesis, and morphological changes in different diseases and link them to the clinical presentation and complications. Also, it help students to apply the knowledge gain from pathology to their profession as future nurses.

2. Course Main Objective

- To give students an insight into pathology nomenclature and basic pathology.
- To provide the students with a background about etiology, pathogenesis and pathologic manifestation of common diseases.
- To enable the students to correlate between histopathology diagnosis and the clinical basis of diseases.
- ➤ To stimulate students' interest in pathology so that they will read and ex-pand their core knowledge as a basis for their professional life.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge and Understanding	
1.1	List the general principles, terminology, diagnostic procedures, and basic concepts of general pathology	
1.2	Define medical terms	
1.3	Describe the mechanism by which different diseases occur (pathogenesis).	
1.4	Describe the morphologic (gross & microscopic) changes occurring as a result of different injuries in various organs.	
1.5	Identify the prognosis & complications of particular disease and outline the general management procedures.	
2	Skills :	
2.1	Predict the signs and symptoms of a disease based on the underlying gross & microscopic tissue changes.	
2.2	Interpret patients with life/organ threatening conditions	
2.3	Evaluate the most appropriate pathologic diagnostic procedures	
2.4	Differentiate the necessary techniques for sample reception & processing according to the nature of specimen received	
2.5	Interpret a pathology report	
2.6	Utilize various computer-based instruction tools and E-learning of Pathology and utilize a variety of computer-based self-assessment tools	
2.7	Integrate data analysis and communication skills	
2.8	Frame a question, search the literature, collect, analyze, critically appraise and utilize the obtained information to solve a particular clinical problem according to the principles of evidenced based medicine	
2.9	Draw the most appropriate pathologic diagnostic procedures	
2.10	Demonstrate skills of learning in diagnosis based on gross and microscopic morphology.	
3	Predict the signs and symptoms of a disease based on the underlying gross & microscopic tissue changes.	
3.1	Analyse the medical resources to the best of his/her knowledge to inform the learning process.	
3.2	Illustrate skills of learning in diagnosis based on gross and microscopic morphology.	
3.3	Demonstrate toward becoming professional and efficient in his/her learning.	
3.4	Ability to answer case study questions correctly using the study material and lectures	
3.5	Use individually and with small or large group (Team work)	
3.6	Evaluate and justify in tutorial sessions and in debates	

C. Course Content

No	List of Topics	Contact Hours
1	Introduction to pathophysiology	1
2	Cellular adaptation, cell injury, cell death and intracellular accumulations	3

3	Inflammation; Acute inflammation, chronic inflammation, Granulomatous Inflammation, Systemic effects of inflammation, and chemical mediators	2
4	Tissue Repair: Regeneration, Healing, and Fibrosis	2
5	Haemodynamic disorders; Oedema, congestion, Haemorrhage. Thrombosis, embolism, Infarction and types of Shock	4
6	Genetics	2
7	Disease of the immune system; immune deficiency, hypersensitivity reaction, autoimmunity and inappropriate immune response	2
8	Neoplasia; nomenclature, characteristics of benign, malignant tumours Cancer worldwide statistics, Saudi cancer Statistics, Signs and symptoms of cancer hallmarks of cancer, Aetiology of cancer, clinical aspects of cancer, and diagnosis of cancer	4
Total		20

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge and Understanding		
1.1	List the general principles, terminology, diagnostic procedures, and basic concepts of general pathology	lectures (L), small group discussion	Written Exam (midterm and Final)
1.2	Define medical terms	lectures (L), small group discussion	Written Exam (midterm and Final)
1.3	Describe the mechanism by which different diseases occur (pathogenesis).	lectures (L), small group discussion	Written Exam (midterm and Final)
1.4	Describe the morphologic (gross & microscopic) changes occurring as a result of different injuries in various organs.	lectures (L), small group discussion	Written Exam (midterm and Final)
1.5	Identify the prognosis & complications of particular disease and outline the general management procedures.	lectures (L), small group discussion, case study	Written Exam (midterm and Final)
2.0	Skills		
2.1	Evaluate the most appropriate pathologic diagnostic procedures	lectures (L), Give students a problem and pathology case that requires collecting information from internet.	Written Exam (midterm and Final)
2.2	Differentiate the necessary techniques for sample reception & processing according to the nature of specimen received	lectures (L), Give students a problem and pathology case that requires collecting information from internet.	Written Exam (midterm and Final)

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
2.3	Interpret a pathology report	lectures (L), Give students a problem and pathology case that requires collecting information from internet.	Written Exam (midterm and Final)
2.4	Utilize various computer-based instruction tools and E-learning of Pathology and utilize a variety of computer-based self-assessment tools	Assignment (small group work)	Observation
2.5	Integrate data analysis and communication skills	Assignment (small group work)	Observation
2.6	Frame a question, search the literature, collect, analyze, critically appraise and utilize the obtained information to solve a particular clinical problem according to the principles of evidenced based medicine	Assignment (small group work)	Observation
2.7	Draw the most appropriate pathologic diagnostic procedures	Assignment (small group work)	.
2.8	Demonstrate skills of learning in diagnosis based on gross and microscopic morphology.	Assignment (small group work)	Observation
2.9	Differentiate the necessary techniques for sample reception & processing according to the nature of specimen received	lectures (L), Give students a problem and pathology case that requires collecting information from internet.	Written Exam (midterm and Final)
2.10	Interpret a pathology report	lectures (L), Give students a problem and pathology case that requires collecting information from internet.	Written Exam (midterm and Final)
3.0	Values		
3.1	Analyse the medical resources to the best of his/her knowledge to inform the learning process.	Assignment (small group work)	Observation
3.2	Illustrate skills of learning in diagnosis based on gross and microscopic morphology.	Assignment (small group work)	Observation
3.3	Demonstrate toward becoming professional and efficient in his learning.	Assignment (small group work)	Observation
3.4	Use individually and with small or large group (Team work)	Assignment (small group work)	Observation
3.5	Evaluate and justify in case study discussion and in debates	Assignment (small group work)	Observation

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Midterm = 20 marks	8	30
2	Activity	14 - 15.	20.
3	Final exam = 60 marks	18.	50.
4	Total marks = 100		100. %

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

All the staff members have office hours during which the staff is available to meet with the students, help them, and answer all their questions and inquiries.

· office hours: 2 hours per week

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	· Robbins Basic Pathology By Kumar, Abbas, Fausto, Mitchell (10th Edition)
Essential References Materials	Robbins Basic Pathology Walter & Israel General pathology Muir's textbook in pathology
Electronic Materials	http:// www. PATHMAX. com • http:// www.-medlib.med .utah.edu/Web Path / LABS/ LAB-MENU. Html. • http://www.medscap.com/pathologyhome • http://www.qwumc.edu/dept/path/2f.htm
Other Learning Materials	Lecture CDs available on request

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	a. Lecture halls in the faculty for this course are equipped to accommodate group discussion tutorial sessions. b. The classrooms include enough number of comfortable mobile seats.

Item	Resources
	c. These lecture halls are supplied with audiovisual equipment, data show, a large screen, screen pointers & other equipment needed for the PowerPoint presentation of lectures. d. Blackboard Elearning platform e. Webex Elearning platform f. Zoom g. MS Teams
Technology Resources (AV, data show, Smart Board, software, etc.)	1. Computing resources (AV, data show, Smart Board, software, etc.) 2. Internet access
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
1- Strategies for Obtaining Student Feedback on Effectiveness of Teaching	- Questionnaire is distributed to all the students at the end of the Course, data analysis, interpreted and discussed by the course director or committee in order to issue an improvement plan for any difficulties facing the students.	- A questionnaire is designed for course evaluation to assess the effectiveness of the course regarding objectives, teaching facilities, instructor, assessment process and resources.
2- Other Strategies for Evaluation of Teaching by the Program/Department Instructor	Program/Department Instructor	- A course evaluation questionnaire is designed to evaluate the teaching of staff members of the course. It is distributed to instructors who participated in teaching the course at the end of the semester. - An annual course report is compiled by the course director or committee in light of the results of students' performance as well the results of the course evaluation questionnaire by students.
3- Processes for Improvement of Teaching	Program/Department Instructor	- Obtain student feedback frequently. - Keep a "teaching log". A teaching log is a weekly record of important experiences, insights, or

Evaluation Areas/Issues	Evaluators	Evaluation Methods
		<p>milestones in the teaching/student learning.</p> <ul style="list-style-type: none"> - Create a written teaching philosophy and modify it as required based on collected data - Periodically videotape the lectures and labs. - Periodically have a troubleshooting session with students. Ask them what is working; what is not working? - Test on what you teach and teach what you intend to test. - Engagement: students are urged to engage with the real world, analyze everything that happens in different life spheres: Instead of conventional teaching methods, students were taken to visit the hospitals
4- Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)	Program/Department Instructor	<ul style="list-style-type: none"> - Double checking of the students answers by two raters or evaluators. - External examiners recruitment is helpful for verifying students' performance.
5- Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.	Program/Department Instructor	<ul style="list-style-type: none"> - The course is revised annually after its de-livery in light of the results of students' performance (students' grades) and the results of the course evaluation questionnaire by both students and teaching staff. - The course director or committee discuss-es these issues and put an improvement plan for each spotted problem. - They revise the course content and intended learning objectives. Any changes in objectives, teaching strategies or assessment methods

Evaluation Areas/Issues	Evaluators	Evaluation Methods
		should be documented in the course specification of the next year. Major changes should not be considered except after being approved by the curriculum committee.

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	
Reference No.	
Date	