

Department	Pharmacy
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<b>Course Name</b>	Pathophysiology	<b>Course No.</b>	201333
Prerequisite	Physiology 2	Credit Hours	2
Number & date of course plan approval	2016/2017	Brief Description	See form QF02/0409

<b>Course Objective</b>	<ol style="list-style-type: none"> <li>1. Understand basic tissue reactions to different types of injuries</li> <li>2. Know the etiology of major diseases</li> <li>3. Know the pathogenesis (how) of the diseases</li> <li>4. Describe the morphologic effects produced by the disease</li> <li>5. Describe the effects of the disease on the function of organs</li> </ol> <p>Know the outcome and possible complications of the disease</p>
<b>Intended Learning Outcomes</b>	<p>Students will be able to:</p> <ol style="list-style-type: none"> <li>1. describe the general physiological processes used by the body to maintain homeostasis</li> <li>2. describe the pathophysiological responses to infection, necrosis, stress, carcinogenesis</li> <li>3. discuss the etiology and effects of disease on the various organ systems</li> <li>4. identify compensation mechanisms that occur in response to trauma and disease</li> </ol>
<b>Course Topics</b>	<ol style="list-style-type: none"> <li>1. Pathophysiology, Introduction To Pathology,</li> <li>2. Cell Injury, Cell Death, And Adaptations:-</li> <li>3. Acute And Chronic Inflammation:</li> <li>4. Hemodynamic Disorders, Thrombosis, And Shock:</li> <li>5. Neoplasia</li> <li>6. The Heart:</li> <li>7. The Lung:</li> <li>8. Fluid, electrolyte and acid base imbalances.</li> <li>9. The Endocrine system disorders:</li> <li>10. The Gastrointestinal Tract:</li> <li>11. The Liver, Gallbladder, And Biliary Tract</li> </ol>
<b>Text Books</b>	<ol style="list-style-type: none"> <li>1. Pathophysiology CM Porth; 2014, 9<sup>th</sup> Edition.</li> </ol>

<b>References</b>	Text book: Robbins Basic Pathology 8E Kumar et. al. Kumar Abbas , Fausto Mitchell SAUNDERS ELSEVIER 1. Pathophysiology CM Porth; second edition				
<b>Grade Determination</b>	1 <sup>st</sup> Exam = 25% 2 <sup>nd</sup> Exam = 25% Final Exam = 50%	Practical Course Grade Determination	Course Work = 50% (Reports, Term Papers, Quizes) Final Exam = 50%		
<b>Course Outline</b>					
<b>Week</b>	<b>Hours</b>	<b>Subjects</b>		<b>Chapters in Textbook</b>	<b>Notes</b>
1	1 1	Pathophysiology, Introduction To Pathology, etiology, Pathogenesis, morphology, Clinical manifestations, Diagnosis, Clinical course, Epidemiology.		1	
2	1 1	Cell Injury, Cell Death, And Adaptations: Overview of Cellular Responses to Stress And Noxious Stimuli, Cellular Adaptations to Stress, Overview of Cell Injury And Cell Death.		5	
3	1 1	Cell Injury, Cell Death, And Adaptations: Causes Of Cell Injury, The Morphology Of Cell And Tissue Injury, Examples Of Cell Injury And Necrosis, Apoptosis, Intracellular Accumulations, Pathologic Calcification, Cellular Aging.		5	
4	1 1	Acute And Chronic Inflammation: Overview Of Inflammation, Acute Inflammation, Morphologic Patterns of Acute Inflammation.		14	
5	1 1	Acute And Chronic Inflammation: Chronic Inflammation, Systemic Effects of Inflammation. Systemic Effects of Inflammation.		14	
6	1 1	Hemodynamic Disorders, Thrombosis, And Shock: Edema, Hyperemia And Congestion, Hemorrhage, Hemostasis And Thrombosis, Embolism, Infarction, Shock.		26+34	
7	1 1	Fluid, electrolyte and acid base imbalances. Fluid compartment relationships. Fluid volume excess and fluid volume deficit. Sodium, potassium and calcium imbalances Acid – base imbalances		39+40	

Week	Hours	Subjects	Chapters in Textbook	Notes
8	1 1	Neoplasia, Nomenclature, Characteristics Of Benign And Malignant Neoplasms, Clinical Aspects Of Neoplasia	8	
9	1 1	The Heart: Heart Failure, Congenital Heart Disease, Ischemic Heart Disease (Ihd), Hypertensive Heart Disease.	34+32+31	
10	1 1	The Heart: Valvular Heart Disease, Cardiomyopathies, Pericardial Disease, Cardiac Tumors, Cardiac Transplantation.	34+32+31	
11	1 1	The Lung: Acute Lung Injury, Atelectasis Obstructive Versus Restrictive Pulmonary Diseases, Obstructive Pulmonary Disease, Emphysema, Chronic Bronchitis	36	
12	1 1	The Lung: Asthma, And Chronic bronchiectasis Diffuse Interstitial (Restrictive, Infiltrative) Lung Diseases. Acute Respiratory Distress Syndrome	37	
13	1 1	Endocrine: Hypopituitarism, Hypopituitarism, Hyperpituitarism, Diseases of Posterior Pituitary, Diseases of Thyroid, Gland Hyperthyroidism, Hypoparathyroidism, Hyperparathyroidism, Diseases of Adrenal Gland	49+50	
14	1 1	The Gastrointestinal Tract: 1- Esophagus, Anatomic And Motor Disorders, Barrett Esophagus, Esophageal Carcinoma, Varices, Esophagitis 2- Stomach, Gastritis, Gastric Ulceration. 3-Small And Large Intestines, Developmental Anomalies, Vascular Disorders, Colonic Diverticulosis, Bowel Obstruction, Inflammatory Bowel Disease.	45	
15	1 1	The Liver, Gallbladder, And Biliary Tract, The Liver, Disorders Of The Gallbladder And The Extrahepatic Biliary Tracts	46	



Course Detailed Description – Procedures of the Course Plan Committee /Faculty of Pharmacy

QF02/0408–2.1E

Approved by Dept. Chair		Date of Approval	
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**Extra Information:** (Updated every semester and filled by course instructor)

<b>Course Instructor</b>	Dr. Sawsan Khdair, Dr. Ezzden Gassar
<b>Office No.</b>	404
<b>Extension Email</b>	
<b>Office hours</b>	