



Jordan University of Science and Technology
Faculty of Medicine
Doctor Of Medicine (Md) Department

MED372 Pathophysiology

First Semester 2024-2025

Course Catalog

3 Credit Hours. Pathophysiology (consisting of the Greek origin words ?pathos? = suffering; ?physis? = nature, origin; and ?logos? = ?the study of?) refers to the study of abnormal changes in body functions that are the causes, consequences, or concomitants of disease processes. Studies of pathophysiology are concerned with the investigation of biological processes that are directly related to disease processes of physical, mental, or psychophysiological conditions and disorders (e.g., alterations in the endocrine system, in certain neurotransmitters, or inflammatory parameters related to the activity of the immune system). Thus, pathophysiological research aims at identifying biological markers and mechanisms for predicting and explaining disease processes in terms of etiology and pathogenesis. Pathophysiology is formally considered as a subdiscipline within physiology. This three credits course is designed for pharm.D, pharmacy, paramedical and nursing students. It focuses on the characteristics and manifestations of diseases caused by alteration to function of the body. It includes basic mechanisms of diseases and selected common disorders of the following Systems: endocrine, hematology, cardiovascular, respiratory, urinary, digestive and nervous system. Pathophysiology explains the functional and biochemical changes that are associated with or a result of disease or injury. In other words, disease pathophysiology encompasses understanding the body?s molecular, cellular, and systemic responses involved in the development and progression of a disease.

Teaching Method: Blended

Text Book

Title	Davidson's Principles and practice of Medicine
Author(s)	Lan D Penman
Edition	24th Edition
Short Name	Davidson
Other Information	

Instructor

Name	Dr. Mustafa Al-Shehabat
Office Location	M4L2

Office Hours	Sun : 13:00 - 14:30 Mon : 08:00 - 10:00 Tue : 08:00 - 09:00 Thu : 08:00 - 09:30
Email	mashehabat@just.edu.jo

Class Schedule & Room	
Section 1:	Lecture Time: Sun : 14:30 - 16:00 Room: مدرج د. سعد حجازي
Section 2:	Lecture Time: Mon : 10:00 - 11:30 Room: مدرج الفاروق

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Introduction into Cardiovascular system	
Week 2	Ischemic Heart Diseases	
Week 3	Arrhythmias	
Week 4	Blood pressure regulation & hypertension	
Week 5	Introduction into GIT system	
Week 6	Peptic ulcer diseases	
Week 7	Malabsorption Syndrome	
Week 8	Introduction into Endocrine System Physiology	
Week 9	Thyroid gland disorders	
Week 10	Adrenal Gland disorders	
Week 11	Nephrotic syndrome	
Week 12	Chronic renal disease	
Week 13	Parkinson disease	
Week 14	Epilepsy	
Week 15	Cerebrovascular Accident	
Week 16	Blood disorders	

Relationship to Program Student Outcomes (Out of 100%)													
PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12	PLO13	PLO14

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