



Course Syllabus

1	Course title	Pathophysiology
2	Course number	0702205
3	Credit hours	3 hours credit hours
	Contact hours (theory, practical)	3 hours weekly
4	Prerequisites/corequisites	Anatomy and Physiology
5	Program title	Bachelor of Science in Nursing
6	Program code	
7	Awarding institution	The University of Jordan
8	School	Nursing
9	Department	Clinical Nursing
10	Course level	2nd year
11	Year of study and semester (s)	2 nd Semester 2022\2023
12	Other department (s) involved in teaching the course	BSc Nursing
13	Main teaching language	English
14	Delivery method	<input checked="" type="checkbox"/> Face to face learning <input type="checkbox"/> Blended <input type="checkbox"/> Fully online
15	Online platforms(s)	<input checked="" type="checkbox"/> Moodle <input checked="" type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype <input type="checkbox"/> Zoom <input type="checkbox"/> Others.....
16	Issuing/Revision Date	26/2//2023

17 Course Coordinator:

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Contact hours:

**19 Course Description:**

As stated in the approved study plan.

This course focuses on the physiological changes that occur as a result of internal and external environmental stressors and pathological responses of the body that lead to the appearance of the signs and symptoms of the disease in response to these changes. This course reviews the concepts and fundamentals of the most common health problems. The content focuses on the special health needs over individual's life.

20 Course aims and outcomes:**A- Aims:**

The course aims to introduce students to the basic pathophysiological processes that underpin different diseases and alterations that affect the body and utilizing this knowledge in planning nursing care.

B- Students Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

SLOs SLOs of the course	SLO (1)	SLO (2)	SLO (3)
A. Knowledge and Understanding	Utilize previous knowledge of basic sciences as they apply to the disease process (e.g. Anatomy and Physiology)	Explain the etiology and pathogenesis of various diseases affecting body systems.	Define relevant pathophysiologic terms.
B. Intellectual Analytical and Cognitive Skills	B1. Identify the effects of internal and external stresses on individuals	Recognize the influence of various physiological, environmental, and psychological stresses on physiological alterations.	Identify major alterations in normal body functions and their effect on individual's health.
C. Subject/ Specific/ Practical Skills	Demonstrate ability to understand pathophysiologic concepts and alteration processes.		
D. Creativity /Transferable Key Skills/Evaluation	Analyze the physical, environmental and social impacts of disease on individuals, families, and communities.		


21. Topic Outline and Schedule:

Week	Lecture	Topic	Intended Learning Outcome	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources (Pages)
1	1.1	<u>Ch 1. Cellular Function</u>		Face to Face		Synchronous	First Exam	Story (2018) (P. 9-21)
	1.2	* Cellular Damage * Cellular Death & injury						
	1.3	* Neoplasia		Face to Face		Synchronous		
2	2.1	<u>Ch 2. Body Defenses</u>		Face to Face		Synchronous	First Exam	32-49
	2.2	* Immunity & inflammation * Alterations in immune response * Transplant Reactions						
	2.3	* Autoimmune Disorders * Immunodeficiency & Acquired immunodeficiency syndrome (AIDS)		Face to Face		Synchronous		
Week	Lecture	Topic	Intended Learning Outcome	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources
3	3.1	<u>Ch 3. Hematopoietic Function</u>		Face to Face		Synchronous	First Exam	52-69
	3.2	* Hematopoietic function & homeostasis * Diseases of the Red Blood Cells						
	3.3	* Diseases of WBC & lymphoid tissue * Diseases of the platelets		Face to Face		Asynchronous		
4	4.1	<u>Ch 4. Cardiovascular Function</u>		Face to Face		Synchronous		87-113
	4.2	* Heart Failure * Dyslipidemia * Atherosclerosis						

	4.3	* Aneurysms * Peripheral Vascular Disease * Thrombi and Emboli		Face to Face		Asynchronous	Second Exam	
5	5.1	Ch 4. Cardiovascular Function * Coronary Artery Disease * Myocardial Infarction * Shock		Face to Face		Synchronous		
	5.2							
	5.3	* Varicose Veins * Hypertension		Face to Face		Asynchronous	Second Exam	
6	6.1	Ch 5. Respiratory Function * Review of Respiratory System * Lower Respiratory Tract Infection ✓ Bronchiolitis ✓ Pneumonia ✓ Tuberculosis * Asthma * Chronic Obstructive Pulmonary Disease (COPD)		Face to Face		Synchronous		
	6.2							
	6.3	* Upper Respiratory Tract Infection ✓ Infectious Rhinitis ✓ Sinusitis ✓ Epiglottitis (self-reading) ✓ Laryngitis (self-reading) ✓ Laryngotracheobronchitis ✓ Acute Bronchitis ✓ Influenza		Face to Face	MS Teams & Moodle	Asynchronous	Second Exam	
7	7.1	Ch 5. Respiratory Function * Acute Respiratory Distress		Face to Face		Synchronous		127-157
	7.2							

		Syndrome (ARDS) * Atelectasis * Acute Respiratory Failure ARF						
	7.3	* Chronic Bronchitis * Emphysema * Pleural Effusion * Pneumothorax		Face to Face	MS Teams & Moodle	Asynchronous		
8	8.1	General Revision (Q&A)		Face to Face	MS Teams & Moodle	Synchronous		Ch 4-5
	8.2							
	8.3	Mid-Term Exam (On-Campus)					MCQ Exam	
9	9.1	Ch 7. Urinary Function * Review Renal System		Face to Face		Synchronous		194-212
	9.2	* Urinary Tract Obstruction * Nephrolithiasis * Hydronephrosis						
	9.3	* Urinary incontinence * UTI * Cystitis * Pyelonephritis		Face to Face	MS Teams & Moodle	Asynchronous	Final Exam	
10	10.1	Ch 7. Urinary Function * Renal Failure		Face to Face		Synchronous		Final Exam
	10.2	* Chronic Kidney Disease						
	10.3	* Benign Prostatic Hyperplasia Inflammatory Disorders * Glomerulonephritis * Nephrotic syndrome		Face to Face	MS Teams & Moodle	Asynchronous		
11	11.1	Ch 9. Gastrointestinal Function		Face to Face		Synchronous		268-297
	11.2	* Gastroesophageal Reflux Disease					Final Exam	

		* Gastritis * Peptic Ulcer Disease * Disorders of liver, Hepatitis, Cirrhosis						
	11.3	* Dysphagia * Vomiting * Cholelithiasis * Pancreatitis * Diarrhea * Constipation		Face to Face	MS Teams & Moodle	Asynchronous		
12	12.1	Ch 9. Gastrointestinal Function		Face to Face	MS Teams & Moodle	Synchronous	Final Exam	
	12.2	* Intestinal Obstruction * Appendicitis * Peritonitis						
	12.3	* Celiac disease * Inflammatory Bowel Disease * Crohn's Disease * Ulcerative Colitis * Irritable Bowel Syndrome		Face to Face		Asynchronous		
13	13.1	Ch 10. Endocrine Function		Face to Face	MS Teams & Moodle	Synchronous	Final Exam	310-319
	13.2	* Introduction to Endocrine Function * Diabetes Mellitus						
	13.3	* Management of Diabetes Mellitus		Face to Face		Asynchronous		
14	14.1	Ch 11. Neural Function		Face to Face	MS Teams & Moodle	Synchronous	Final Exam	347-369
	14.2	* Brain injuries * Spinal cord injuries * Cerebral vascular accident						
	14.3	* Meningitis & encephalitis * Cerebral aneurysm * Seizure disorders		Face to Face		Asynchronous		
15	Final Exam (TBA)-On Campus							



22 Evaluation Methods:

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

Evaluation Activity	Mark	Topic(s)	SLOs	Period (Week)	Platform
First Exam	20	Ch 1-3		TBA	On campus
Midterm Exam	30	Ch 4-5		8 th week	On campus
Final exam	50	Ch 7,9,10,11		15 th week	On campus

23 Course Requirements

(e.g: students should have a computer, internet connection, webcam, account on a specific software/platform (MS Teams):

24 Course Policies:

Please refer to the university policies as published up-to-date in the link below:
<http://units.ju.edu.jo/ar/LegalAffairs/Lists/Regulations/DispForm.aspx?ID=246&ContentTypeId=0x0100C7850F392E786A439F935E088708707E>

25 References:

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

- Story, L. (2018). Pathophysiology: A Practical Approach, 3rd ed. Burlington, MA: Jones & Bartlett Learning.

B- Recommended books, materials and media:

- Huether S and McCance K (2017) Understanding pathophysiology. (6th edition). St. Louis, Mosby.
- Porth, C (2019) Pathophysiology: concepts of altered health states (tth Ed.). Philadelphia, J.B Lippincott

26 Additional information:



Name of Course Coordinator: Prof. Muhammad Darawad	Signature: <i>Muhammad Darawad</i>
Date: 26/2/2023	
Head of Curriculum Committee/Department: -----	Signature: -----
Head of Department: ----- Dr. Zyad Saleh -----	Signature: ---- Dr. Zyad Saleh -----
Head of Curriculum Committee/Faculty: -----	Signature: -----
Dean: -----	Signature: -----