

Course Plan for Bachelor Program - Study Plan Development and Updating Procedures/ Pharmacy Department	QF02/0408-4.0E
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Study Plan No.	2021/2022	University Specialization	Bachelor of Nursing
Course No.	0201261	Course Name	Pathophysiology for Nurses
Credit Hours	3	Prerequisite *Co-requisite	Physiology for Nurses
Course Type	<input type="checkbox"/> Mandatory University Requirement <input checked="" type="checkbox"/> University Elective Requirement	<input checked="" type="checkbox"/> Faculty Mandatory Requirement <input type="checkbox"/> Support course family requirements	<input type="checkbox"/> Mandatory Requirement <input checked="" type="checkbox"/> Elective Requirement
Teaching Style	<input type="checkbox"/> Full Online Learning	<input checked="" type="checkbox"/> Blended Learning	<input type="checkbox"/> Traditional Learning
Teaching Model	<input type="checkbox"/> 1 Synchronous: 1 Asynchronous	<input checked="" type="checkbox"/> 1 Face to Face: 1 Asynchronous	<input type="checkbox"/> 2 Traditional

Faculty Member and Study Divisions Information (to be filled in each semester by the subject instructor)

Faculty Member and Study Divisions Information (to be filled in each semester by the subject instructor)					
Name	Academic rank	Office No.	Phone No.	E-mail	
Office Hours (Days/Time)	Sunday, Tuesday, Thursday ()		Monday, Wednesday ()		
Division number	Time	Place	Number of Students	Teaching Style	Approved Model
				Blended Learning	1 Face to Face: 1 Asynchronous

Brief Description

This course focuses on the pathophysiology of common disease conditions affecting human beings across the lifespan. Content builds on basic anatomy and physiology, microbiology, and chemistry obtained from earlier courses, and links these basic sciences with clinical medicine. This will help students to understand the mechanisms of the diseases and provide them with solid basis to understand further therapeutic intervention in future courses.

Learning Resources

Course Book Information (Title, author, date of issue, publisher ... etc)	Porth's Pathophysiology: Concepts of Altered Health States; Grossman, Sheila C., Porth, Carol Mattson, R.N.; 10 th Edition; 2014; Wolters Kluwer
Supportive Learning Resources (Books, databases, periodicals, software, applications, others)	Robbins Basic Pathology (Robbins Pathology); Vinay Kumar, Abul Abbas, Jon Aster; 10 th Edition; 2017; Elsevier.
Supporting Websites	-
The Physical Environment for Teaching	<input checked="" type="checkbox"/> Classroom <input type="checkbox"/> Labs <input checked="" type="checkbox"/> Virtual Educational Platform <input type="checkbox"/> Others
Necessary Equipment and Software	<ul style="list-style-type: none"> - PC/laptop with headphones and camera. - Data-show. - Microsoft Office.

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	<ul style="list-style-type: none"> - Microsoft Teams. - Zoom Platform. - Moodle.
Supporting People with Special Needs	-
For Technical Support	E-Learning & Open Educational Resources Center Email: ellearning@zuj.edu.jo ; Phone: +962 6 429 1511 ext. 425/362

Course learning outcomes (K= Knowledge, S= Skills, C= Competencies)

No.	Course Learning Outcomes	The Associated Program Learning Output Code
Knowledge		
The student should be able to:		
K1	Understand the basic terminology of pathophysiology and the concepts of health and disease.	MK1
K2	Describe the aspects of the disease process including etiology, pathogenesis, signs, and symptoms.	MK1
K3	Explain the basic pathophysiological processes behind a certain disease	MK1
K4	Describe the major diseases affecting each system covered in this course.	MK1
Skills		
The student should be able to:		
S1	Distinguish the cell changes according to the type of injurious agents.	MS1
S2	Explain the mechanism and body reaction to the body changes associated with different diseases in the different systems covered in this course such as the cardiovascular system, respiratory system, and endocrine system.	MS1
Competencies		
The student should be able to:		
C1	Develop his/her professional and personal performance by continuously following-up lectures and submitting tasks on time.	MC4

Mechanisms for Direct Evaluation of Learning Outcomes

Type of Assessment / Learning Style	Fully Electronic Learning	Blended Learning	Traditional Learning (Theory Learning)	Traditional Learning (Practical Learning)
Midterm Exam	30%	30%	30%	0%
Participation / Practical Applications	0	0	20%	50%
Asynchronous Interactive Activities	20%	20%	0	0
Final Exam	50%	50%	50%	50%

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Note 1: Asynchronous interactive activities are activities, tasks, projects, assignments, research, studies, projects, work within student groups ... etc, which the student carries out on his own, through the virtual platform without a direct encounter with the subject teacher.

Note 2: According to the Regulations of granting Master's degree at Al-Zaytoonah University of Jordan, 40% of final evaluation goes for the final exam, and 60% for the semester work (examinations, reports, research or any scientific activity assigned to the student).

Schedule of Simultaneous / Face-to-Face Encounters and their Topics

Week	Subject	Learning Style*	Reference ** (Pages in Course Book)
1	Concept of health and disease Epidemiology and patterns of disease	Lecture	Chapter 1 1-11
2	Cellular Adaptations, Cell Injury, and death.	Lecture	Chapter 3 47-62
3	Overview of Inflammation: Acute Inflammation	Lecture	Chapter 9 223-244
4	Chronic Inflammation	Lecture	Chapter 9 223-244
5	Concepts of Cell Differentiation and Growth Characteristics of Benign and Malignant Neoplasms	Lecture	Chapter 6 102-137
6	Disorder of hemostasis and bleeding disorders	Lecture	Chapter 22 384-397
7	Hypercoagulability States, Thrombosis, and congestion Embolism	Lecture	Chapter 8 158-217
8	Introduction to the cardiovascular system Pathophysiology of heart and hypertensive and heart diseases.	Lecture	Chapter 8 274-309
9	Acute Lung injury, atelectasis Obstructive Versus Restrictive Pulmonary Diseases Midterm Exam	Lecture	Chapter 30-31 889-955
10	Asthma, and Chronic bronchiectasis Diffuse interstitial (restrictive, infiltrative) lung diseases	Lecture	Chapter 30-31 889-955
11	Endocrine Disorders: Thyroid and parathyroid disorders	Lecture	Chapter 41 1188-1227
12	Diseases of Adrenal Gland	Lecture	Chapter 41 1188-1227
13	Diabetes mellitus	Lecture	Chapter 41 1188-1227
14	Introduction to gastrointestinal tract disorders	Lecture	Chapter 35 1075-1900
15	Esophagus, stomach, small intestine,	Lecture	Chapter 37

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	and large intestine disorders		1900-1111
16	Final Exam	-	-

* Learning styles: Lecture, flipped learning, learning through projects, learning through problem solving, participatory learning ... etc.

** Reference: Pages in a book, database, recorded lecture, content on the e-learning platform, video, website ... etc.

Schedule of Asynchronous Interactive Activities (in the case of e-learning and blended learning)

Week	Task / Activity	Reference	Expected Results
1	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment (1)
2	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment (2)
3	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment (3)
4	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment (4)
5	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment (5)
6	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment (6)
7	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment (7)
8	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment (8)
9	Midterm Exam	-	-
10	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment (9)
11	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment (10)
12	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment (11)
13	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment (12)
14	Watch a recorded lecture	Video on the E-learning	Answer questions

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		platform	embedded in the video / Assignment (13)
15	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment (14)
16	Final Exam	-	-