

جـامعـة الزينونـــة األربنيــة Al-Zaytoonah University of Jordan كُلِهُ الصِدلة Faculty of Pharmacy



" عراقة وجودة" "Tradition and Quality"

Course Plan for Bachelor Program - Study Plan Development and Updating Procedures/ Pharmacy Department

QF02/0408-4.0E

	1											
Study Plan No.	2021/2022				University Specialization			Bachelor of Pharmacy				
Course No.	0201239		39		Course Name				Pathophysiology			
Credit					quisite			Anatomy and Physiology (2)				
Hours	Hours 3					equisite			yy 3 , (-)			
Type University El		Elect		✓ Faculty Mandatory Requirement			Support course family requir ements	☐ Mand ry Requi ment		□ Elective Requirem ent		
Teaching Style		Full Onli	ne Learni	ng 🗹 Blended Learning		ng	☐ Traditional Learning					
Teaching Model			nronous: hronous		✓ 1 Face to Face: 1 Asynchronous			☐ 2 Traditional				
Faculty Me	mber a	and Stud	v Divisio	ns Inf	orma	tion (to be fill	led in	each seme	ster by the si	ubiect i	nstructor)	
Name		Acade			ffic	Phon		each semester by the subject instructor) E-mail				
		ran	k	e	No.	e No.						
Office Hou (Days/Tim		Sunda	y, Tuesda	y, Thur	sday ())	Mon	day, Wed	nesday ()			
Division nun	ıber	Tin	ie	Pl		Number of students		TeachingStyle Approved Model		Iodel		
								Rlandad Laarning		ace to Face: synchronous		
Brief Descr	iption											
This course	_	es on the	pathoph	vsiolog	gy of	common dis	sease	conditio	ns affection	ng hur	man beings	
across the li												
obtained fro												
students to u												
further thera						F-						
	P											
Learning R												
Course Book				Pathophysiology CM Porth; 2014, 10 th Edition.								
(Title, author, or publisher etc.)		ssue,		Patnophysiology CM Porth; 2014, 10" Edition.								
-												
Supportive Learning Resources				Robbins Basic Pathology (Robbins Pathology) 10 th Edition								
(Books, databases,				6, (6,)								
periodicals, so												
applications, others) Supporting Websites												
				☑ Cla	assrooi	m 🗆 La	abs		irtual		Others	
The Physical Environmentfor Teaching				4551 001		aus	Edu	icational atform		Others		
			_	15: 0.000								
Necessary Equipment and			_	36 11								
Software				1,1000								
Supporting People with Special												

Needs



جـامعـة الزينونـــة األردنيــة Al-Zaytoonah University of Jordan كلية الصيدلة Faculty of Pharmacy



" عراقة وجودة" "Tradition and Quality"

Course Plan for Bachelor Program - Study Plan Development and Updating Procedures/ Pharmacy Department

OF02/0408-4.0E

For Technical Support

E-Learning & Open Educational Resources Center.

Email: <u>elearning@zuj.edu.jo</u>; 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				
The	Knowledge The student should be able to:					
K1	Outline the aspects of pathophysiology and the concepts of health and Disease.	MK3				
K2	Differentiate the basic pathophysiological processes involved in diseases covered in this course.	MK3				
К3	Describe the aspects of the disease process including etiology, pathogenesis, signs and symptoms.	MK3				
The s	Skills The student should be able to:					
S1	Classify the cell changes according to the type of injurious agents.	MS4				
S2	Describe the mechanisms and physiological responses associated with diseases affecting different systems such as the cardiovascular, respiratory, and endocrine systems.	MS4				
TD1	Competencies					
The s	student should be able to:					
-		-				

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%	30%	60%
Asynchronous Interactive Activities	30%	30%	0%	0%
Final Exam	40%	40%	40%	40%

Note 1: Asynchronous interactive activities are activities, tasks, projects, assignments, research, studies, projects, and 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).



جــامعــة الزينونـــة األردنيــة Al-Zaytoonah University of Jordan كُلِهُ الصِدلة Faculty of Pharmacy



" عراقة وجودة" "Tradition and Quality"

Course Plan for Bachelor Program - Study Plan Development and Updating Procedures/
Pharmacy Department QF02/0408-4.0E

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

Week	Subject	Learning Style*	Reference **
1	 Introduction to pathophysiology: Concept of health and disease Epidemiology and patterns of disease 	Lecture Participatory learning	Chapter 1 1-11
2	Cellular Adaptations and CellInjury	Lecture Participatory learning	Chapter 3 47-62
3	Cell death and apoptosis	Lecture Participatory learning	Chapter 3 47-62
4	Overview of Inflammation:	Lecture Participatory learning	Chapter 9 223-244
5	 Inflammatory mediators Chronic inflammation Systemic effect of inflammation 	Lecture Participatory learning	Chapter 9 223-244
6	Neoplasia:	Lecture Participatory learning	Chapter 6 102-137
7	Alteration in hematological functionand oxygen transport	Lecture Participatory learning	Chapter 12
8	Disorders of hemostasis and coagulation	Lecture Participatory learning	Chapter 22 384-397
9	Thrombosis: • Hypercoagulability, congestion and embolism • Vascular stem and atherosclerosis Midterm Exam	Lecture Participatory learning	Chapter 8 158-217
10	 Ischemic heart disease Hypertension	Lecture Participatory learning	Chapter 8 274-309
11	Heart failure	Lecture Participatory learning	Chapter 8 274-309
12	Endocrine Disorders:	Lecture	Chapter 41



جـامعـة الزينونـــة األربنيــة Al-Zaytoonah University of Jordan كُلِهُ الصِدلة Faculty of Pharmacy



" عراقة وجودة" "Tradition and Quality"

Course Plan for Bachelor Program - Study Plan Development and Updating Procedures/
Pharmacy Department QF02/0408-4.0E

	Thyroid and parathyroid disorders	Participatory learning	1188-1227
13	Endocrine Disorders:Diseases of Adrenal GlandDiabetes mellitus	Lecture Participatory learning	Chapter 41 1188-1227
14	Disorders of respiratory system	Lecture Participatory learning	Chapter 30-31 889-955
15	Disorders of Gastrointestinal system	Lecture Participatory learning	Chapter 35 1075-1900
16	Final Exam		

^{*}Learning styles: Lecture, flipped learning, learning through projects, learning through problem solving, participatory learning ... 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
2	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
3	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
4	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
5	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
6	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
7	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
8	Self-study	A selected topic	Assignment
9	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
10	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment

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



جـامعـة الزينونـــة األربنيــة Al-Zaytoonah University of Jordan ثلبة الصيدلة Faculty of Pharmacy



" عراقة وجودة" "Tradition and Quality"

Course Plan for Bachelor Program - Study Plan Development and Updating Procedures/ Pharmacy Department QF02/0408-4.0E

11	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
12	Self-study	A selected topic	Assignment
13	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
14	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
15	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
16	Final Exam		_