

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 Pharmacy	
Course No.	0201539		Course Name		Global and Public health in Pharmacy	
Credit Hours	1		Prerequisite *Co-requisite		Therapeutics (2) + *Therapeutics (3)	
Course Type	<input type="checkbox"/> Mandatory University Requirement	<input type="checkbox"/> University Elective Requirement	<input type="checkbox"/> Faculty Mandatory Requirement	<input type="checkbox"/> Support course family requirements	<input checked="" type="checkbox"/> Mandatory Requirement	<input 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 will introduce students to selected foundational competencies in global and public health education and discuss cases where pharmacists can contribute in this area such as opioid abuse, smoking cessation, weight management, malnutrition, sexual transmitted diseases, etc.

Learning Resources

Course Book Information (Title, author, date of issue, publisher ... etc)	Introduction to Public Health in Pharmacy (2 ed.) Edited by Bruce Lubotsky Levin, Ardis Hanson, and Peter D. Hurd Publisher: Oxford University PressPrint Publication Date: Feb 2018Print ISBN-13: 9780190238308Published online: Mar 2018DOI: 10.1093/med/9780190238308.001.0001			
Supportive Learning Resources (Books, databases, periodicals, software, applications, others)	Burton's Microbiology for the Health Sciences. Chapter 11. Epidemiology and Public Health			
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	Moodle			
Supporting People with				

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Special Needs	
For Technical Support	

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	Identify concepts of public and global health and understands the role of pharmacists (opportunities vs. barriers).	MK3
K2	Describe the role of pharmacists in various global and public health issues	MK3
Skills		
The student should be able to:		
S1	Examine health risks and diseases from an epidemiological perspective, perform simple surveys and establishing reporting systems for disease surveillance and control.	MS1
S2	Appraise different systems for health care delivery provision of pharmaceutical drugs and identify roles of international actors and their roles in health care and humanitarian action.	MS1
S3	Critique, read and utilize literature related to global health issues such as smoking cessation, nutrition and sexual transmitted diseases.	MS1
Competencies		
The student should be able to:		
C1	Select resources for efficient use in a multidisciplinary health team in health care work or humanitarian action, including project planning, information seeking, human resource management, health promotion, staff training and evaluation of interventions.	MC1

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%

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).

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

Week	Subject	Learning Style*	Reference **
1	Global public health Introduction and opportunities vs. barriers for pharmacists in public health	Lecture	1
2	Epidemiology and public health	Lecture	1, 2
3	Opioid abuse and naloxone accessibility	Case study	1
4	Infectious diseases and epidemics Pharmacists and prevention and treatment of respiratory infections and diarrheal diseases HIV, malaria and tuberculosis	Lecture	1
5	Infectious diseases and pandemics: the case of COVID-19 Pharmacists and CLIA-waved testing, vaccination awareness, and disease prevention by vaccination	Case study	
6	Smoking cessation Pharmacists and counseling about smoking cessation and OTC smoking cessation aid, prescribing smoking cessation aids	Lecture	1
7	Global nutrition Contribution of pharmacists in malnutrition	Lecture	1
8	Global nutrition Contribution of pharmacists in weight management and control	Case study, Lecture	1
9	Sexual and reproductive health Family planning, safe abortion, effective STD programs Harmful practices such as female genital cutting Midterm Exam	Lecture	1
10	Sexual and reproductive health Effective STD programs Harmful practices such as female genital cutting	Lecture	1
11	Antibiotic stewardship	Case study	

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	Introduction		
12	Antibiotic stewardship Improving Clinical Outcomes by Optimization of Antibiotic Practices (clinical pharmacy role)	Lecture	1
13	Mental Health Pharmacy services for people with depression, anxiety, PTSD, sleep disorders	Case study	
14	De-prescribing in pharmacy settings The case of geriatrics	Case study	
15	-		
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
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	Self-study	A selected topic	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	Midterm Exam	-	-
10	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
11	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment

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12	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
13	Self-study	A selected topic	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	-	-