

Philadelphia University	 PHILADELPHIA UNIVERSITY THE WAY TO THE FUTURE	Approved Date: 19-3-2022
Faculty:		Issue:1
Department:		Credit Hours:3
Academic Year:2021\2022		Bachelor:

Course Information

Course No.	Course Title	Prerequisite
0521323	Pharmacology II	0521314
Course Type		Room No.
<input checked="" type="checkbox"/> University Requirement <input type="checkbox"/> Major Requirement <input checked="" type="checkbox"/> Compulsory	<input type="checkbox"/> Faculty <input type="checkbox"/> Elective	611
	Sat/Mon Section 3: 9.45 – 11.15	614
	Sat/Mon Section 4: 12.45 -14.00	609
	Sun/Tues. Section 1: 8.15 – 9.45	507
		Sun/Tues. Section 1 (<i>New plan</i>):

Course Level*				Hours			Equivalent hours*
4 th	5 th	6 th	7 th	Contact	Independent Learning	Assessment	9
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	45	42	3	
				Total: 90			

*According to JNQF standards

Instructor Information

Name	Office No.	Phone No.	Office Hours	E-mail
Dr. Yousef Abusamra, Assistant professor	516	2201	Sat/Mon: 11.00 – 12.00 Sun/Tue: 10.00 -11.00	yabusamra@philadelphia.edu.jo

Course Delivery Method

<input type="checkbox"/> Blended	<input type="checkbox"/> Online	<input checked="" type="checkbox"/> Physical
Learning Model		
Percentage	Synchronous	Asynchronous
		100%

Course Description

This course is one of the major requirements for pharmacy students that is built upon and consolidates the knowledge gained in Pharmacology-I and is designed to provide the students with the unit processes in pharmacology. It deals with the study of the mechanisms of action, metabolism & excretion, clinical use & toxicities of drugs that act on the endocrine systems, and gastrointestinal systems. It also covers antibiotics and other antibacterial agents together with antiviral and tubercular drugs.

Course Learning Outcomes

Number	Outcome	Corresponding Program Outcomes
Knowledge		
K1	Classify the major groups of endocrine drugs, and identify the drugs that are used for diabetic disease, corticosteroids, hormonal contraception, drugs used for gastrointestinal disease, and antimicrobial agents.	Kp1
K2	Identify pharmacokinetics and pharmacodynamics of drugs, indications, clinical uses, side effects, and contraindications, and recognize the drug-drug interactions and drug-food interactions and prevent adverse drug reactions in the body.	Kp1
K3	Build knowledge on routes of drug administration and the effects of the drug on pregnant and lactating women.	Kp1
Skills		
S1	Interpret, analyze, and evaluate information in the literature.	Sp1
Competencies		
C1	Possess self-learning skills, problem-solving & critical thinking abilities.	Sp2
C2	Prediction of the clinical uses, and side effects by knowing the pharmacokinetics & pharmacodynamics of the drugs and utilizing that in consultation provision for the patients.	Cp1

Learning Resources

Course Textbook	Basic and Clinical Pharmacology by Katzung BG, Masters SB, Trevor AJ (Editors), McGraw Hill, New York, 14th edition, 2018 ISBN 978-1-259-64115-2.
Supporting References	1. Lippincott, Illustrated Reviews: Pharmacology by Whalen K, 8th edition, 2023. 2. The Pharmacological Basis of Therapeutics by Brunton; Laurence L. Lazo, Johns S. Parker, Keith L & Alfred Goodman Gillman 11th edition McGraw Hill. ISBN 0-07-142. 3. Pharmacotherapy: A Pathophysiologic Approach by: Joseph T. DiPiro, Gary C. Yee, L. Michael Posey, Stuart T. Haines, Thomas D. Nolin, Vicki Ellingrod. 11th Edition, 2020.
Supporting Websites	
Teaching Environment	<input checked="" type="checkbox"/> Classroom laboratory <input type="checkbox"/> Learning Platform <input type="checkbox"/> Other

Meetings and Subjects TimeTable

Week	Topic	Learning Method*	Task	Learning Material
1	Vision and Mission of Faculty of Pharmacy Course Syllabus Endocrine hormones; pancreatic hormones	Lecture		Vision and Mission of the Faculty of Pharmacy Course Syllabus Textbook
2	Anti-diabetic drugs Insulin	Lecture, Flipped learning		Textbook
3	Oral Antidiabetic Agents	Lecture, Collaborative learning	Quiz 1	Textbook
4	Pituitary gland: introduction Growth hormone analogs and antagonists Gonadotropins	Lecture, Collaborative learning Flipped	Case study	Textbook

	Prolactin and oxytocin	learning and Class presentations		
	Thyroid and anti-thyroid drugs	Lecture		
5	Adrenocortacosteriods & Adrenocortical antagonists	Lecture, Collaborative learning		Textbook
6	Hormonal contraception The Gonadal hormones &inhibitors.	Lecture, Collaborative learning		Textbook
7	Drugs used in gastrointestinal disease; Peptic ulcer	Lecture, Collaborative learning	Videotaped Assignment	Textbook
8	Antiemetic agents, laxatives, and Anti-diarrheal agents. Drugs used for the treatment of irritable bowel syndrome (IBS) &inflammatory bowel disease (IBD)	Lecture, Problem-solving based learning Flipped learning, discussion forums, and presentations	Short report Quiz 2	Textbook
9	Chemotherapeutic drugs; Introduction to chemotherapy. β -Lactam antibiotics &other inhibitors of cell wall synthesis. Penicillin	Lecture, Problem-solving based learning Lecture Case study		Textbook

10	Cephalosporins, Monolactams Carbapenems & Vancomycin	Lecture, Problem-solving based learning		Textbook
11	Chloramphenicol, Tetracyclines, Macrolides and Clindamycin.	Lecture, project-based learning	Short presentation	Textbook
	MID-TERM EXAM			
12	Aminoglycosides and other drugs used to treat gram-negative infection	Lecture, Problem-solving based learning		Textbook
13	Sulphonamides, Trimethoprim & Quinolones	Collaborative learning		Textbook
14	Anti-viral, Anti-tubercular agents, and Antifungal drugs	Flipped learning Discussion forum		Textbook
15	Anti-viral, Anti-tubercular agents, and Antifungal drugs	Flipped learning Discussion Forum Class presentations and forum discussion		Textbook
16	FINAL EXAM			

*Includes lectures, flipped classes, project-based learning, problem-solving-based learning, and collaborative learning.

Course Contributing to Learner Skill Development

Using Technology
-Use PowerPoint or any other relevant programs for preparing presentations -Use a variety of Electronic databases in searching for published data.
Communication Skills
-Report writing -Oral presentation of selected topics
Application of Concept Learnt
-Practical application in the corresponding practical course

Assessment Methods and Grade Distribution

Assessment Methods	Grade	Assessment Time (Week No.)	Course Outcomes to be Assessed
Mid Term Exam	% 30	11	Kp1, Cp1
Term Works*	% 30	Continuous	Kp1, Sp1, Cp1
Final Exam	% 40	16	Kp1, Sp1, Sp2, Cp1
Total	%100		

* Include quizzes, in-class and out-of-class assignments, presentations, reports, videotaped assignment, group, or individual project.

Alignment of Course Outcomes with Learning and Assessment Methods

Number	Learning Outcomes	Corresponding competencies	Learning Method*	Assessment Method**
Knowledge				
K1	Classify the major groups of endocrine drugs, and identify the drugs that are used for diabetic disease, corticosteroids, hormonal contraception, drugs used for gastrointestinal disease, and antimicrobial agents.	Kp1	Lecture	Subjective Quiz Exam/subjective Questions
K2	Identify pharmacokinetics and pharmacodynamics of drugs, indications, clinical uses, side effects, and contraindications, and recognize the drug-drug interactions and drug-food	Kp1	Lecture, Collaborative learning Problem-solving	Subjective Quiz Exam/subjective Questions

	interactions and prevent adverse drug reactions in the body.		based learning	
K3	Build knowledge on routes of drug administration and the effects of the drug on pregnant and lactating women.	Kp1	Lecture Collaborative learning Problem-solving based learning	Subjective Quiz Exam/subjective Questions Case study evaluation
Skills				
S1	Interpret, analyze & evaluate information in the literature.	Sp1	Problem-solving based learning	Subjective Quiz Exam/subjective Questions Case study evaluation
Competencies				
C1	Possess self-learning skills, problem-solving & critical thinking abilities.	Sp2	Collaborative learning Problem-solving based learning	Subjective Quiz Exam/subjective Questions Videotaped assignment evaluation
C2	Prediction of the clinical uses, and side effects by knowing the pharmacokinetics & pharmacodynamics of the drugs and utilizing that in consultation provision for the patients.	Cp1	Project-based learning	Oral presentation evaluation

*Include lecture, flipped class, project-based learning, problem-solving-based learning, and collaborative learning.

** Include quizzes, in-class and out-of-class assignments, presentations, reports, videotaped assignments, and group or individual projects.

Course Policies

Policy	Policy Requirements
Passing Grade	The minimum pass for the course is (50%) and the minimum final mark is (35%).
Missing	<ul style="list-style-type: none"> Anyone absent from a declared semester exam without a sick or compulsive excuse accepted by the dean of the college that proposes the course, a zero mark shall be placed on that exam and calculated

Exams	<p>in his final mark.</p> <ul style="list-style-type: none"> • Anyone absent from a declared semester exam with a sick or compulsive excuse accepted by the dean of the college that proposes the course must submit proof of his excuse within a week from the date of the excuse's disappearance, and in this case, the subject teacher must hold a compensation exam for the student. • Anyone absent from a final exam with a sick excuse or a compulsive excuse accepted by the dean of the college that proposes the material must submit proof of his excuse within three days from the date of holding that exam.
Attendance	The student is not allowed to be absent from more than (15%) of the total hours prescribed for the course, which equates to six lecture days (n t) and seven lectures (days). If the student misses more than (15%) of the total hours prescribed for the course without a satisfactory or compulsive excuse accepted by the dean of the faculty, he is prohibited from taking the final exam and his result in that subject is considered (zero), but if the absence is due to illness or a compulsive excuse accepted by the dean of the college that The article is introduced, it is considered withdrawn from that article, and the provisions of withdrawal shall apply to it.
Academic Integrity	Philadelphia University pays special attention to the issue of academic integrity, and the penalties stipulated in the university's instructions are applied to those who are proven to have committed an act that violates academic integrity, such as cheating, plagiarism (academic theft), collusion, and intellectual property rights.

Program Learning Outcomes to be Assessed in this Course

Number	Learning Outcome	Course Title	Assessment Method	Targeted Performance Level
Sp4	Assure that patients' best interests are represented.	Pharmacology-2	Oral presentation	75 % of the students should have a minimum score of 7 out of 10

Description of Program Learning Outcomes Assessment Method

Number	Detailed Description of Assessment
Sp4	Students should prepare reports related to the gist of the outcome, and display them before their colleagues in the classroom. They have total freedom to run the time allocated for each of them and stimulate the reactions of their colleague. They have to try their best to present ideal presentations whose parts will be evaluated according to the rubric shown below.