

Philadelphia University	 <b>PHILADELPHIA UNIVERSITY</b> THE WAY TO THE FUTURE	Approved Date: 19-3-2022
Faculty:		Issue:1
Department:		Credit Hours:3
Academic Year:2021\2022		Course Syllabus

### Course Information

Course No.	Course Title	Prerequisite	
052040000	Pharmacology II	052032800	
Course Type		Class Time	Room No.
<input type="checkbox"/> University Requirement <input type="checkbox"/> Faculty Requirement <input type="checkbox"/> Major Requirement <input type="checkbox"/> Elective <input checked="" type="checkbox"/> Compulsory		Sec.1 12:45-14:15 Sun,Tue 9.45 – 11.15 Sec.2 Mon,Wed	414     414

### Instructor Information

Name	Office No.	Phone No.	Office Hours	E-mail
Dr.Yousef Abusamra	408 Faculty of Nursing 1 <sup>st</sup> floor	2174	Sun/Tue 9.00-9.45 10.35-11.00 Mon/Wed 11.15 - 12.15	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	Physical
			100%

### Course Description

This course is one of the major requirements of the 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 mechanism of action, metabolism & excretion, clinical use & toxicities of drugs that act on the endocrine systems, gastrointestinal system. It also covers the antibiotics and other antibacterial agents together with the antiviral and anti-tubercular drugs.

## Course Learning Outcomes

Number	Outcome	Corresponding Program Outcomes	Corresponding Competencies
<b>Knowledge</b>			
<b>K1</b>	Classification of the major groups of endocrine drugs, and identification of the drugs which are used for Diabetic disease, corticosteroids Hormonal contraception, drugs used in gastrointestinal disease, and antimicrobial agents.	K <sub>P1</sub> , K <sub>P2</sub> ,	C1,C2
<b>K2</b>	Identification of pharmacokinetics and pharmacodynamics of drugs, indication and, clinical uses, side effects, and contraindication.	K <sub>P1</sub> , K <sub>P2</sub> ,	C1,C2
<b>K3</b>	Building knowledge on routes of drug administration, effects of the drugs on pregnant and lactating women.	K <sub>P1</sub> , K <sub>P2</sub> ,	C1,C2
<b>K4</b>	Recognition of the drug-drug interactions and drug-food interactions and prevent adverse drug reactions in the body.	K <sub>P1</sub> , K <sub>P2</sub> ,	C1,C2
<b>Skills</b>			
<b>S1</b>	Possess self-learning skills, problem-solving & critical thinking abilities.	S <sub>p2</sub>	C8
<b>S2</b>	Prediction of the clinical uses, side effects by knowing the pharmacokinetic & pharmacodynamics of the drugs.	S <sub>p3</sub> , S <sub>p4</sub>	C9,C10
<b>S3</b>	Interpretation, analysis, and evaluation of the information in the literature.	S <sub>p2</sub> , S <sub>p3</sub> , S <sub>p4</sub>	C8,C9,C10

## Learning Resources

<b>Course Textbook</b>	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.
<b>Supporting References</b>	1. Lippincott, Illustrated Reviews: Pharmacology by Whalen K, 6th edition,

	<p>2018.</p> <p>2. The Pharmacological Basis of Therapeutics by Brunton; Laurence L. Lazo, Johns S. Parker, Keith L &amp; Alfred Goodman Gillman 11th edition McGraw Hill. ISBN 0-07-142.</p> <p>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.</p>
<b>Supporting Websites</b>	
<b>Teaching Environment</b>	<input checked="" type="checkbox"/> <b>Classroom</b> <input type="checkbox"/> <b>laboratory</b> <input type="checkbox"/> <b>Learning Platform</b> <input type="checkbox"/> <b>Other</b>

## 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 Faculty of Pharmacy  Course Syllabus  Textbook
2	Anti-diabetic drugs Insulin	Lecture, Flipped learning		Text book
3	Oral Antidiabetic Agents	Lecture, Collaboration learning	Quiz 1	Text book
4	Thyroid and anti-thyroid drugs	Lecture, Collaboration learning	Case study	Text book
5	Adrenocorticosteroids & Adrenocortical antagonists	Lecture, Collaboration learning	Quiz 2	Text book
6	Hormonal contraception The Gonadal hormones & inhibitors.	Lecture, Collaboration learning		Text book
7	Drugs used in gastrointestinal disease ; Peptic ulcer	Lecture, Collaboration learning	Videotaped assignment	Text book
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	Short report	Text book
9		Lecture,		Text book

	Chemotherapeutic drugs; Introduction to chemotherapy. B-Lactam antibiotics & other inhibitors of the cell wall synthesis.  Pencillin	Problem-solving based learning		
<b>10</b>	Cephalosporins, Monolactams Carbapenems & Vancomycin	Lecture,  Problem-solving based learning		Text book
<b>11</b>	Chloramphenicol, Tetracyclines,  Macrolides and Clindamycin.	Lecture,  project-based learning	Short presentation	Text book
<b>12</b>	Aminoglycosides and other drugs used to treat gram-negative infection	Lecture, Problem-solving based learning		Text book
<b>13</b>	Sulphonamides, Trimethoprim & Quinolones	Collaboration learning		Text book
<b>14</b>	Anti-viral, Anti-tubercular agents, and Antifungal drugs	Lecture, Problem-solving based learning		Text book
<b>15</b>	Miscellaneous; Anti-microbial agents;  disinfectant, antiseptics  Anti-protozoal and Anthelmintic drugs.	Lecture		Text book
<b>16</b>	<b>Final Exam</b>			

\*Includes: lecture, flipped Class, project-based learning, problem solving-based learning, collaboration 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
<b>Mid Term Exam</b>	<b>% 30</b>	<b>11</b>	<b>K1, K2, K3, K4 S1, S2, S3</b>
<b>Term Works*</b>	<b>% 30</b>	<b>Continous</b>	<b>S1, S2, S3</b>
<b>Final Exam</b>	<b>% 40</b>	<b>16</b>	<b>K1, K2, K3, K4 S1, S2, S3</b>
<b>Total</b>	<b>%100</b>		

\* 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**
<b>Knowledge</b>				
<b>K1</b>	Classify the Major groups of endocrine drugs, and identify the drugs which are used for Diabetic disease, corticosteroids Hormonal contraception, drugs used for gastrointestinal disease, and antimicrobial agents.	C1,C2	Lecture	Subjective Quiz  Exam/subjective Questions
<b>K2</b>	Identify pharmacokinetic and pharmacodynamics of drugs, indication and, clinical uses, side effects and contraindication.	C1,C2	Lecture ,  Collaborative learning	Subjective Quiz  Exam/subjective Questions

			Problem-solving based learning	
<b>K3</b>	Building knowledge on routes of drug administration, effects of the drugs on pregnant and lactating women.	C1,C2	Lecture Collaborative learning Problem-solving based learning	Subjective Quiz Exam/subjective Questions Case study evaluation
<b>K4</b>	Recognition of the drug-drug interaction and drug-food interaction and prevent adverse drug reactions in the body.	C1,C2	Lecture Collaborative learning Problem-solving based learning	Subjective Quiz Exam/subjective Questions Case study evaluation
<b>Skills</b>				
<b>S1</b>	Possess self-learning skills, problem-solving & critical thinking abilities.	C8	Problem-solving based learning	Subjective Quiz Exam/subjective Questions Case study evaluation
<b>S2</b>	Prediction of the clinical uses, side effects by knowing the pharmacokinetic & pharmacodynamics of the drugs.	C9, C10	Collaborative learning Problem-solving based learning	Subjective Quiz Exam/subjective Questions Videotaped assignment evaluation
<b>S3</b>	Interpretation, analysis, and evaluation of information in the literature	C8,C9,C10	Project-based learning	Oral presentation evaluation

\*Include lecture, flipped class, project-based learning, problem solving-based learning, collaboration learning.

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

## Course Policies

Policy	Policy Requirements
<b>Passing Grade</b>	The minimum pass for the course is (50%) and the minimum final mark is (35%).
<b>Missing Exams</b>	<ul style="list-style-type: none"> <li>• 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 in his final mark.</li> <li>• 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.</li> <li>• 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.</li> </ul>
<b>Attendance</b>	The student is not allowed to be absent 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.
<b>Academic Integrity</b>	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, intellectual property rights.

### Program Learning Outcomes to be Assessed in this Course

Number	Learning Outcome	Course Title	Assessment Method	Targeted Performance level



## Description of Program learning Outcomes Assessment Method

Number	Detailed Description of Assessment

## Assessment Rubric of the Program Learning Outcomes

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