


Philadelphia University	 PHILADELPHIA UNIVERSITY <small>THE WAY TO THE FUTURE</small>	Approved Date:
Faculty: Pharmacy		Issue: 1
Department:		Credit Hours: 3
Academic Year:		Course Syllabus

Course Information

Course No.	Course Title	Prerequisite
0520328	Pharmacology 101	0520300
Course Type	Class Time	Room No.
<input type="checkbox"/> University Requirement <input type="checkbox"/> Faculty Requirement <input type="checkbox"/> Major Requirement <input checked="" type="checkbox"/> Compulsory	<input type="checkbox"/> <input type="checkbox"/> Elective	TBA

Instructure Information

Name	Office No.	Phone No.	Office Hours	E-mail
	Faculty of Pharmacy		TBA	

Course Delivery Method

<input type="checkbox"/> Blended <input type="checkbox"/> Online <input checked="" type="checkbox"/> Physical			
Learning Model			
Percentage	Synchronous	Asynchronous	Physical
0	0	0	100%

Course Description

This course is designed to provide students with the basic principles of the science of pharmacology and familiarizes them with the necessary terminology. This course is contextualized based on reflective, interactive and analytical learning. It deals with the concepts of drug receptor interaction, mode of action of drugs, adverse effects, dose-response relationship, drug toxicity, drug absorption, distribution, protein binding, metabolism and excretion respectively. It also covers the detailed information about drugs acting on the autonomic nervous system (adrenergic and cholinergic) and drugs acting on central nervous system.

Course Learning Outcomes

Number	Outcome	Corresponding Program Outcomes	Corresponding Competencies
Knowledge			
K1	App	Kp1	C1
K2	*To integrate and apply pathophysiologic and pharmacotherapeutic knowledge to develop a drug therapy plan specific for each patient condition taking into account population differences and social determinants and their effect on medical care. *Being the medication expert and properly provide a patient centered care (collect and interpret evidence, prioritize, formulate assessments and recommendations, implement, monitor and adjust plans and document activities).	Kp1, Kp2, Kp4, Kp5	
K3	Be familiar with clinical presentations and the differential lab and physical examinations of different diseases.	Kp1, Kp2	C1, C2
Skills			
S1	Use	Sp2	C8
S2	To provide the patient with a comprehensive treatment plan for his condition.	Sp1, Sp4	C7, C10
S3	Give patients' appropriate counseling about their non pharmacological and pharmacological therapy.	Sp3	C9
S4	Communicate appropriately with patient and medical staff.	Sp3, Sp5, Sp6, Sp8	C9, C11, C12, C14

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	<ol style="list-style-type: none"> Lippincott, Illustrated Reviews: Pharmacology by Whalen K, 6th edition, 2018. The Pharmacological Basis of Therapeutics by Brunton; Laurence L. Lazo, John S. Parker, Keith L & Alfred Goodman Gillman 11th edition McGraw Hill. ISBN 0-07-142. 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	Philadelphia University e-learning site
Teaching Environment	<input checked="" type="checkbox"/> Classroom <input type="checkbox"/> laboratory <input type="checkbox"/> Learning Platform <input type="checkbox"/> Other

Meetings and Subjects Time Table

Week	Topic	Learning Method*	Task	Learning Material	
1	<ul style="list-style-type: none"> • Vision and Mission of Faculty of Pharmacy <ul style="list-style-type: none"> • Course Syllabus • General Principles (Pharmacy Care and Medication Therapy Management) 	Lecture		<ul style="list-style-type: none"> •Vision and Mission of Faculty of Pharmacy •Course Syllabus 	
1-3	General principles of pharmacology, terminology and general introduction, Receptors and Drug Targets	Lecture	Group Project (Clinical Case Solving)		
4	Pharmacokinetics, pharmacodynamics and ADME				
4-5	Drugs affecting the autonomic nervous system. General aspects of neuropharmacology.	Lecture			
6-7	Cholinergic (parasympathomimetics) drugs. Cholinergic (muscarinic) blocking agents. Ganglionic blocking agents.	Lecture (Quiz 1)***			**
7-8	Neuromuscular blocking agents and Muscle relaxants	Lecture			
9	Adrenergic (Sympathomimetic) drugs. Adrenergic blocking agents..	Lecture			
10-11	Serotonin and Serotonin antagonist. Kinins and other peptides	Lecture			
11	Midterm Exam				
12	Drug acting on the CNS .(Psychopharmacology) .General concept of psychopharmacology .Antipsychotic drugs	Lecture (Quiz 2)***			**
13-14	Anti-depressant drugs	Lecture			
14-15	Anti-parkinsonian drugs	Lecture			
15	Antiepileptic	Lecture			
16	Final Exam				

*Includes: lecture, flipped Class, project based learning, problem solving based learning, collaboration learning.

**As illustrated in the references section.

*Quiz 3: TBA

Course Contributing to Learner Skill Development

Using Technology

<ul style="list-style-type: none"> Using Microsoft office to prepare reports and presentations Using online medical applications/ calculators in solving some clinical problems Using the university's e-learning site as a supporting reference tool and for term works solving
Communication Skills
<ul style="list-style-type: none"> Clinical case presentation and solving Teamwork and group discussions engagement
Application of Concept Learnt
<ul style="list-style-type: none"> Clinical cases solving

Assessment Methods and Grade Distribution

Assessment Methods	Grade	Assessment Time (Week No.)	Course Outcomes to be Assessed
Quizzes	% 30	Continous	K1-K3 S1-S3
Reports and Projects*	% 30	Continous	K1-K3 S1-S4
Final Exam	% 40	16 th week	K1-K3 S1-S3
Total	%100		

* Include: quizzes, in-class and out of class assignment, 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	Apply the knowledge obtained from this course to solve treatment problems associated with different diseases.	C3	Lecture Project based learning	Exams Group project
K2	*To integrate and apply pathophysiologic and pharmacotherapeutic knowledge to develop a drug therapy plan specific for each patient condition taking into account population differences and social determenants and their effect on medical care. *Being the medication expert and properly provide a patient centered care (collect and interpret evidence,	C1, C2, C4, C5	Lecture Project based learning	Exams Group project

	prioritize, formulate assessments and recommendations, implement, monitor and adjust plans and document activities)			
K3	Be familiar with clinical presentations and the differential lab and physical examinations of different diseases.	C1, C2	Lecture Project based learning	Exams Group project
Skills				
S1	Use evidence-based medicine to think critically of different medical cases.	C8	Lecture Project based learning	Exams Group project
S2	To provide the patient with a comprehensive treatment plan for his condition.	C7, C10	Lecture Project based learning	Exams Group project
S3	Give patients' appropriate counseling about their non pharmacological and pharmacological therapy.	C9	Lecture Project based learning	Group project
S4	Communicate appropriately with patient and medical staff.	C9, C11, C12, C14	Lecture Project based learning	Group project

*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 Polices

Policy	Policy Requirements
Passing Grade	The minimum pass for the course is (50%) and the minimum final mark is (35%).
Missing Exams	<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 in his final mark. • 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 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, 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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