

Philadelphia University	 PHILADELPHIA UNIVERSITY <small>THE WAY TO THE FUTURE</small>	Approved Date: 10/2022
Faculty: Pharmacy		Issue: 1
Department: Clinical Science		Credit Hours: 1
Academic Year:		Course Syllabus

Course Information

Course No.	Course Title	Prerequisite or Co-requisite:	
0520521	Clinical Case Studies	(0520402 and 0520520) or Co-requisite (0520520)	
Course Type		Class Time	Room No.
<input type="checkbox"/> University Requirement <input type="checkbox"/> Faculty Requirement <input checked="" type="checkbox"/> Major Requirement <input type="checkbox"/> Elective <input checked="" type="checkbox"/> Compulsory			

Instructure Information

Name	Office No.	Phone No.	Office Hours	E-mail

Course Delivery Method

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

Course Description

This course cover various clinical case studies of different diseases, and in each case, an assessment will be made to a patient's condition regarding the reasonable treatment alternatives, selection of appropriate therapy (pharmacological and non-pharmacological therapy), and identifying the important monitoring parameters needed to evaluate the patient's care plan. The course will cover diseases of gastrointestinal tract (peptic ulcer, irritable bowel syndrome), cardiovascular system (hypertension), respiratory system (asthma), upper respiratory tract infections (pharyngitis, otitis media, and sinusitis), lower respiratory tract infections (pneumonia), upper urinary tract infections (pyelonephritis) lower urinary tract (cystitis) and skin (acne and soft skin tissues infections). On the other hand various issues will be discussed in the virtual pharmacy such as introducing the applications of cost-effectiveness methodologies into different clinical aspects, recognizing different brand, generic and trade names of antibiotics, and the difference between cost and public price.

Course Learning Outcomes

Number	Outcome	Corresponding Program Outcomes	Corresponding Competencies
Knowledge			
K1	Learn how to recognize signs and symptoms of certain diseases based on an appropriate understanding of the underlying pathophysiology and diagnostic criteria.	Kp1	C1
K2	Compare various management options, recommend patient-specific therapy plans including drugs, life style modifications and monitoring parameters.	Kp1, Kp2, Kp3	C1, C2, C3
K3	Obtain information regarding identification of drug-related problems (drug-drug, drug-food, and drug-disease interactions).	Kp1	C1
K4	Learn how to categorize medications according to trade and generic drug names.	Kp1	C1
Skills			
S1	Skillfully integrate and employ pathophysiologic and pharmaco-therapeutic knowledge in discovering drug therapy problems and developing pharmaceutical care plans specific for each patient condition.	Sp1, Sp2	C7, C8
S2	Gain the ability to counsel and educate patients regarding their disease and the proper use of medications.	Sp1, Sp4, Sp6	C7, C10, C12
S3	Be able to monitor the expected therapeutic outcomes and the potential adverse effects of drugs as well as the avoidance of these adverse effects.	Sp2	C8
S4	Be able to engage into group discussions and critical thinking	Sp9	C15

Learning Resources

Course Textbook	<p>1. Pharmacotherapy: A Pathophysiologic Approach, 11th e Joseph T. DiPiro, Gary C. Yee, L. Michael Posey, Stuart T. Haines, Thomas D. Nolin, Vicki Ellingrod. Print ISBN: 9781260116816, eText ISBN: 9781260116823, 1260116824 McGraw-Hill Education, 2020.</p>
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	<p>2. Pharmacotherapy Principles & Practice 5th e Marie A. Chisholm-Burns, Terry L. Schwinghammer, Barbara G. Wells, Patrick M. Malone, Jill M. Kolesar, Joseph T. Di Piro Print ISBN: 9781260019445, 1260019446 Print ISBN: 9781260019445, 1260019446 eText ISBN: 9781260019452, 1260019454 McGraw-Hill Education, 2019</p>
Supporting References	<p>1. Clinical pharmacy and therapeutics 6th e Cate Withtlesea. Karen Hodson. ISBN 978-0-7020-7011-2 Elsevier Limited (2019)</p> <p>2. Applied Therapeutics the clinical use of drugs 11th e Caroline S. Zeind, Michael G. Carvalho Print ISBN: 9781496318299, 1496318293 Print ISBN: 9781496318299, 1496318293 eText ISBN: 9781496396082, 1496396081 Wolters Kluwer (2018)</p>
Supporting Websites	
Teaching Environment	<input type="checkbox"/> Classroom <input checked="" 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	Vision and Mission of Faculty of Pharmacy. Course Syllabus.	Lecture		Vision and Mission of Faculty of Pharmacy. Course Syllabus.
2	SOAP Note	Lecture Problem solving based learning	Case study Report	Course manual
3	Upper respiratory tract infections (Otitis media)	Lecture Problem solving based learning	Case study Report	Course manual
4	Upper respiratory tract infections (Pharyngitis and sinusitis)	Lecture. Problem solving based learning Collaborative learning.	Case study Report	Course manual
5	Lower respiratory tract infections (Community acquired Pneumonia)	Lecture. Problem solving	Case study Report	Course manual

		based learning Collaborative learning.		
6	Lower respiratory tract infections (Hospital acquired Pneumonia)	Lecture. Problem solving based learning Collaborative learning.	Case study Report	Course manual
7	Upper urinary tract infections (pyelonephritis)	Lecture. Problem solving based learning Collaborative learning.	Case study Report	Course manual
8	Lower urinary tract infections (cystitis)	Lecture. Problem solving based learning Collaborative learning.	Case study Report	Course manual
9	Peptic ulcer	Lecture Problem solving based learning Collaborative learning	Case study Report	Course manual
10	Asthma	Lecture Problem solving based learning Inhaler technique educational videos/www.use-inhalers.com		Course manual
11	Hypertension	Lecture Problem solving based learning	Case study Report	Course manual
12	Final Exam			

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

Course Contributing to Learner Skill Development

Using Technology
Using power point or any other relevant programs for preparing presentations SMART RX system for community pharmacy. Microsoft teams
Communication Skills
Collaborative case study solving Oral presentations Writing reports
Application of Concept Learnt
The concepts that were learnt could be applied at virtual pharmacy

Assessment Methods and Grade Distribution

Assessment Methods	Grade	Assessment Time (Week No.)	Course Outcomes to be Assessed
Reports	30%	Continuous	K1-K4 S1, S2, S3
Quizzes	20%	Continuous	K1-K4 S1-S3
Project	10%	9th Week 10th Week	K1,K2,K3 S1-S4
Final Exam	40%	11th Week	K1-K4 S1-S3
Total	100%		

Alignment of Course Outcomes with Learning and Assessment Methods

Number	Learning Outcomes	Corresponding Competencies	Learning Method*	Assessment Method**
Knowledge				
K1	Learn how to identify signs and symptoms for certain diseases based on an appropriate understanding of the underlying pathophysiology and diagnostic criteria.	C1	Lecture Problem solving based learning Flipped Class	Quiz Case study solving evaluation Report Final exam
K2	Compare various management options, recommend patient-specific therapy plans including drugs, life style	C1, C2, C3	Lecture Problem	Quiz Case study

	modifications and monitoring parameters.		solving based learning Collaborative learning	solving evaluation Report Final exam
K3	Identify drug-related problems (drug-drug, drug-food, and drug-disease interactions).	C1	Lecture Problem solving based learning Collaborative learning	Quiz Case study solving evaluation Report Final exam
K4	Learn how to categorize medications according to trade and generic drug names.	C1	Lecture Flipped Class Virtual pharmacy	Quiz Writing a report Final exam
Skills				
S1	Integrate and apply pathophysiologic and pharmaco-therapeutic knowledge in discovering drug therapy problems and developing pharmaceutical care plans specific for each patient condition.	C7, C8	Problem solving based learning Collaborative learning.	Quiz Case study solving evaluation Report Final exam
S2	Gain the ability to counsel and educate patients regarding their disease and the proper use of medications.	C7, C10, C12	Problem solving based learning	Quiz Case study solving evaluation Report Final exam
S3	Be able to monitor the expected therapeutic outcomes and the potential adverse effects of drugs as well as the avoidance of these adverse effects.	C8	Problem solving based learning	Quiz Case study solving evaluation Report Final exam
S4	Be able to engage into group discussions and critical thinking	C15	Collaborative learning 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 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.

Number	Learning Outcome	Course Title	Assessment Method	Targeted Performance level
Sp2	Identify problems; explore and prioritize potential strategies and design, implement, and evaluate a viable solution.	Clinical Case Studies	Case study Objective exam	60% of students have a minimum score 7 out of 10
Sp5	Actively participate and engage as a healthcare team member by demonstrating mutual respect, understanding, and values to meet patient care needs	Clinical Case Studies	Project	75% of students have a minimum score 7 out of 10

Description of Program learning Outcomes Assessment Method

Number	Detailed Description of Assessment
Sp2	5 essay questions in the final exam
Sp5	Recording a video that represents patient's counseling process, covering 5 aspects

Assessment Rubric of the Program Learning Outcomes

Sp2	<p>Each essay question will be allocated 2 points, totaling 10 points</p> <p>One question allocated for problem identification</p> <p>One question allocated for prioritizing potential strategies for assessment</p> <p>Three questions allocated for designing a suitable care plan</p> <p>a. The goals of pharmacotherapy in the case.</p> <p>b. Nonpharmacological therapies might be useful.</p> <p>c. Creating an individualized, patient-centered care plan including specific drugs, dosage forms, doses, schedules, and durations of therapy.</p>
Sp5	<p>Each aspect will be allocated 2 points, totaling 10 points</p> <p>5 aspects that would assure that patient's best interests are represented which are:</p> <ol style="list-style-type: none"> 1. The medication's name, expected benefits and action. 2. Instructions that would be given concerning drug's administration, dosing and storage. 3. The medication's potential common and severe adverse effects 4. Techniques for self-monitoring of the pharmacotherapy. 5. Future consultations.