

Philadelphia University	 PHILADELPHIA UNIVERSITY <small>THE WAY TO THE FUTURE</small>	Approved Date:
Faculty: Pharmacy		Issue: 1
Department: Pharmacy		Credit Hours: 2
Academic Year: 2021-2022		Course Syllabus

Course Information

Course No.	Course Title	Prerequisite
0520530	Pharmacoeconomics	Pharmacology (3)
Course Type		Class Time
<input type="checkbox"/> University Requirement <input type="checkbox"/> Faculty Requirement <input checked="" type="checkbox"/> Major Requirement <input type="checkbox"/> Elective <input type="checkbox"/> Compulsory		Room No.

Instructor Information

Name	Office No.	Phone No.	Office Hours	E-mail
Enas Abu-Qudais	529			eabuqudais@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 covers the principles of Pharmacoeconomics and to introduce the fundamental topics, define the terminology used in pharmacoeconomic research, focuses on different types and measurement of pharmaceutical costs and outcomes, and investigates how they are analyzed in pharmacoeconomic techniques such as Cost-Benefit Analysis, Cost-Effective Analysis, Cost-Utility Analysis, Cost-Minimization Analysis, and Cost-Consequence Analysis.

It also introduces the fundamental topics and define the Terminology used in pharmacoeconomic research in addition to giving examples in evaluating published research.

Course Learning Outcomes

Number	Outcome	Corresponding Program Outcomes	Corresponding Competencies
Knowledge			
K1	Understand the Key concepts and Terms used in Pharmacoeconomics field	Kp5	C5
K2	Differentiate between types of Pharmacoeconomics analysis	Kp5	C5
K3	Differentiate between costs and different types of outcomes	Kp5	C5
Skills			
S1	Apply the appropriate Pharmacoeconomic type for each case study	Sp2	C8
S2	Be able to communicate with the medical staff and the study perspectives	Sp6	C12
S3	Measure and estimate costs	Sp2	C8
S4	Relate the concept of pharmacoeconomics to patient care	Sp4	C10

Learning Resources

Course Textbook	Essentials of Pharmacoeconomics. Edit.:Karen L.Rascati – 2 nd edition. Pub.:Lippincott Williams & Wilkins, 2014.
Supporting References	
Supporting Websites	
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	Vision and mission of faculty of pharmacy Course syllabus Pharmacoeconomics Definition <ul style="list-style-type: none"> • Introduction • What is Pharmacoeconomics? • Why is Pharmacoeconomics Important? • Relationship of Pharmacoeconomics to Other Research • Types of Pharmacoeconomic Studies 	Lecture		Vision and mission of faculty of pharmacy Course Syllabus Book chapter number one
2	Measuring and estimating costs <ul style="list-style-type: none"> ▪ Costing Terms ▪ Cost Categorization and Alternative methods ▪ Perspective 	Lecture flipped Class		Book chapter number 2
3	<ul style="list-style-type: none"> ▪ Timing adjustment costs ▪ Resources for cost Estimations Example Incremental calculation	Lecture problem solving based learning	Homework	Book chapter number 2
4	Cost Minimization Analysis (CMA)	Lecture		Book chapter number 4
5	Cost effectiveness Analysis (CEA) Presentation of Cost-Effectiveness Analysis	Lecture		Book chapter number 5
6	Cost Effectiveness Grid	Lecture problem solving based learning		Book Chapter number 5
7	Cost Effectiveness Plane Incremental net benefit	Lecture		Book chapter number 5
8	Cost Utility Analysis (CUA) -Overview of CUA -Methods used in Determining utilities -Rating scale	Lecture collaboration learning		Book chapter number 6
9	-Standard Gamble -Time Trade off -Differences between different methods	Lecture flipped Class		Book Chapter number 6
10	Calculating QALY	Lecture	Homework	Chapter

	-Comparison using the CUA			number 6
11	MID exam	Lecture		
12	Cost Benefit analysis -Definition - Advantages and Disadvantages of CBA -Conducting a CBA - Calculating Results of Costs and Benefits	Lecture		Chapter 7
13	-Differences between costs versus benefits -Measuring Indirect and Intangible Benefits -Human Capital Method -Bidding Vehicles	Lecture		Chapter 7
14	Health related quality of life	Lecture		Chapter 8
15	Decision Tree analysis	Lecture		Chapter 9
16	Final Exam			

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

Course Contributing to Learner Skill Development

Using Technology
Powerpoint, videos and online platforms will be used during this course
Communication Skills
Students will learn how to communicate with each other through in class sessions
Application of Concept Learnt
Students will apply the concepts through homeworks and in class assignments

Assessment Methods and Grade Distribution

Assessment Methods	Grade	Assessment Time (Week No.)	Course Outcomes to be Assessed
Mid Term Exam	% 30	Week 11	Kp5,Sp2,Sp4,Sp6
Term Works*	% 30	Continuous	Kp5,Sp2,Sp4,Sp6
Final Exam	% 40	16th week	Kp5,Sp2,Sp4,Sp6
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	Learning Method*	Assessment Method**
Knowledge			
K1	Understanding the Key concepts and Terms used in Pharmacoeconomics field	Lecture	Quiz Exam
K2	Differentiate between types of Pharmacoeconomics analysis	Lecture	Quiz Exam
K3	Differentiate between costs and different types of outcomes	Lecture	Quiz Exam
Skills			
S1	Apply the appropriate Pharmacoeconomic type for each case study	Lecture	Quiz Exam
S2	Be able to communicate with the medical staff and the study perspectives	Lecture Collabotaion learning	Quiz Exam
S3	Measure and estimate costs	Lecture	Quiz Exam
S4	Relate the concept of pharmacoeconomics to patient care	Lecture	Quiz Exam

*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	Philadelphia University pays special attention to the issue of academic

Integrity	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.
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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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