

The University of Jordan
Faculty of pharmacy

Biopharmaceutics and Clinical pharmacy
Pharmacy program

Fall Semester/2013-2014

Clinical Pharmacy Practice (1203561)

Credit hours	One hour	Level	5th year Pharmacy students	Pre-requisite	----
Coordinator / Lecturer	Ph. Muna Barakat	Office number	304	Office phone	5355000/23341
Course instructors:	Ph. Muna Barakat Ph. Saba madain Ph. Nida Zalloum Ph. Deema Jaber	E-mail	Muna.barakat@hotmail.com	Place	Faculty of pharmacy

Office hours					
Day/Time	Sunday	Monday	Tuesday	Wednesday	Thursday
Ph. Muna Barakat	2-3	2-3		2-3	

Course Description

This course is directed toward introducing students to Evidence Based Medicine and Pharmaceutical Care. Students will be taught skills that will enable them to apply theoretical and basic principles of pharmacology, therapeutic and clinical courses in dealing with real cases to identify and resolve different treatment related problems.

Learning Objectives

- To conduct evidence based medicine.
- To understand steps of Pharmaceutical Care.
- To learn how to collect patient data base
- To learn interviewing skills.
- To learn counseling skills and methods.
- To classify and analyze the problems properly according to the classification system in the manual.
- To write " Pharmacist Care Plan" and "Pharmacist monitoring sheet".

- To apply all skills learned previously.

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Intended Learning Outcomes (ILOs):

A. Knowledge and Understanding:

A1- How to write" Pharmacist Care Plan

A2- To learn counseling and interviewing skills

B. Intellectual Analytical and Cognitive Skills: Student is expected to

B1-.Learn how to assess abnormalities in Lab tests.

B2-Learn how to calculate ideal body weight and body mass index

B3-Learn how to Assess Kidney function and Liver function

B4-Learn about basic internet-web browsing skills needed to obtain guidelines treatment of various diseases encountered during rotations as well as to drug databases.

C. Subject-Specific Skills:

1. To illustrate real-life cases seen in the practice of Pharmacy, and to practice solving basic pharmaceutical problems.

2. To stimulate the processes of group discussion, teamwork, and synergy in finding answers to basic and clinical questions arising from case study.

3. To continue to use the process of group-based problem solving for basic and therapeutic questions arising from structured case situations.

4. To aid students' independent problem-solving abilities through learning how to find and use existing resources with a particular emphasis on the use of current literature.

5. To stimulate long-term learning of pharmaceutical information that may or may not be covered in the didactic pharmacotherapeutics courses.

6. To learn to give effective patient education

ILOs: Learning and Evaluation Methods

ILO/s	Learning Methods	Evaluation Methods
A+B+C	Lectures, Group discussions, Homework, Assignments.	Exam, Quiz, assignments.

Course Contents

Content	Reference	LAB#	ILO/s
<p>❖ Introduction to the course</p>	<p>1-- Pharmaceutical Care Practice: The Patient-Centered Approach to Medication Management Services (3rd edition) Cipolle, RJ, Strand, LM, & Morley, PC, McGraw-Hill, 2012.</p>	1	<p>To aid students' independent problem-solving abilities through learning how to find and use existing resources with a particular emphasis on the use of current literature</p>
<p>Evidence Based Medicine</p> <p>❖ Evidence Based Medicine</p> <ul style="list-style-type: none"> ➤ What is evidence based medicine, ➤ Steps for evidence based medicine, ➤ Study design and statistical terms, ➤ Where to find evidence <p>✓ Assignment 1: EBM</p>		2	
<p>❖ Discuss Pharmaceutical care</p> <p>Patient data base:</p> <ul style="list-style-type: none"> ➤ Students will learn how to read medical files and medications Sheets, decipher abbreviations, understand and extract necessary Information. ➤ Students will learn how to create patient data base ➤ Students will learn how to write hospital course ➤ Copies of a recent medical file and 		3	

<p>associated medication sheet from JUH will be distributed to students</p> <ul style="list-style-type: none"> ➤ Copies of JUH-lab tests forms with references values will be distributed to students 			
<p>Drug related problems</p> <ul style="list-style-type: none"> ❖ To classify and analyze the problems properly according to the classification 	<p>1-Pharmacy practice Manual (The classification system approved in the manual is Aburuz <i>et al</i> classification system</p>	4	
<p>Care plan</p> <ul style="list-style-type: none"> ❖ Write appropriate "Pharmacist Care Plan" and "Pharmacist Care Plan Monitoring Worksheet". <ul style="list-style-type: none"> ➤ Students will be introduced to the different forms that are used ➤ Students will work individually on actual patient case and then discuss their work in groups 	<p>1- Pharmaceutical Care Practice: The Patient-Centered Approach to Medication Management Services (3rd edition) Cipolle, RJ, Strand, LM, & Morley, PC, McGraw-Hill, 2012.</p>	5	<p>To illustrate real-life cases seen in the practice of Pharmacy, and to practice solving basic pharmaceutical problems.</p>
<p>Consult Notes</p> <ul style="list-style-type: none"> ❖ Resolve and prevent treatment related problems. <ul style="list-style-type: none"> ➤ This will be achieved through submitting "Consult Notes" and "Patient Education Forms". The "Consult Note" needs to be written in SOAP format. ➤ students will learn how to communicate their recommendations to health care professionals ➤ Students will be introduced to the different forms that are used ➤ Students will work individually on actual patient case and then discuss their work in groups 	<p>1- Pharmaceutical Care Practice: The Patient-Centered Approach to Medication Management Services (3rd edition) Cipolle, RJ, Strand, LM, & Morley, PC, McGraw-Hill, 2012. 2-Pharmacy practice Manual (The classification system approved in the manual is Aburuz <i>et al</i> classification system</p>	6	<p>To illustrate real-life cases seen in the practice of Pharmacy, and to practice solving basic pharmaceutical problems.</p>
<ul style="list-style-type: none"> ✓ Assignment 2: Each group will handle a new case from A to Z working in teams and a test evaluating their skills will be conducted 			<p>To apply all skills learned previously</p>

Evaluation

Evaluation	Point %
Assignment 1	5
Assignment 2	10%
Assignment 3	5
Quizzes	20%
Midterm Exam	20%
Final exam	30%

Main Reference/s:

1. Pharmaceutical Care Practice: The Patient-Centered Approach to Medication Management Services (3rd edition) Cipolle, RJ, Strand, LM, & Morley, PC, McGraw-Hill, 2012. **ISBN-13: 978-0071756389**
2. Langely CA, Belcher D. Applied Pharmaceutical Practice. 1st ed. 2008. Pharmaceutical Press. London. **2009. ISBN 978 0 85369 746 6**
3. Medication Therapy Management: A Comprehensive Approach. David M. Angaran, Karen Whalen. 2015. **ISBN: 978-0-07-184869-5**
4. Community and Clinical Pharmacy Services: A Step-by-Step Approach. Ashley W. Ellis, Justin J. Sherman. 2013. **ISBN 978-0-07-176375-2**
5. Communication Skills in Pharmacy Practice: A Practical Guide for Students and Practitioners. Robert S. Beardsley, Carole L. Kimberlin, William N. Tindall. 2011. **ISBN-13: 978-1608316021**
6. Pharmacotherapy: A Pathophysiological Approach, ed. DiPiro, 9th edition, 2014. McGraw-Hill Medical. **ISBN-13: 978-0071800532.**
7. **Drug Information Handbook: A Clinically Relevant Resource for All Healthcare Professionals.** Lexicomp - ISBN: 1591953308