

**Jerash University**  
**Faculty of pharmacy**  
**Department of pharmaceutical science**  
**Second semester, 2016/2017**

**Course Syllabus**

Course Title: Pharmacology I	Course code: 1101331
Course Level: Third year	Course prerequisite (s) and/or co requisite(s): Physiology2
Lecture Time: Sun+Tues 11:00-12:30	Credit hours: 3 credit hours

**Academic Staff Specifics**

Name	Rank	Office Number and Location	Office Hours	E-mail Address
Dr. Eyad Qunaibi	Associate Professor	Office ( ) Faculty of Pharmacy, Phone ( )	12:45-2:00 Sun+Tues	<a href="mailto:eyadqunaibi@yahoo.com">eyadqunaibi@yahoo.com</a>

### General Course Description

Pharmacology I covers introduction to pharmacology; principle of pharmacodynamics and pharmacokinetics; types of drug-receptor interactions; drugs affecting the autonomic nervous system; and drugs affecting the central nervous system system.

### Course Objectives

- Enabling the student to understand the basic pharmacodynamic & brief pharmacokinetic principles of drug action and, for each drug class discussed, to ensure that the student knows the generic names of the most important drugs in the class, mechanism of pharmacologic action, therapeutic uses, adverse effects, precautions, and contraindications.

### Expected Learning Outcomes

Successful completion of this course should lead to the following learning outcomes:

- Use standard pharmacological definitions, terminology, & approved abbreviations.
- Understand general principles of pharmacodynamics and pharmacokinetics.
- Outline the functions & structure of the autonomic nervous system.
- Illustrate the clinical features of the central nervous system diseases.
- Interpret the mechanism of action, actions, therapeutic uses, interactions, precautions, contraindications and adverse effects of autonomic and CNS drugs.

## Course Plan Distribution & Learning Resources

### Course Contents :

<i>Week</i>	<i>Topics</i>	<i>Topic Details</i>	<i>Reference (chapter)</i>
1		<b>Brief Pharmacokinetic Concepts</b>	1
2, 3		<b>Drug-Receptor Interactions &amp; Pharmacodynamics</b>	2
	<b>The Autonomic Nervous System</b>	<b>The Autonomic Nervous physiology</b>	3
4.		<b>Cholinergic Agonists</b>	4
5.		<b>Cholinergic Antagonists</b>	5
<b>FIRST EXAM</b>			
6.		<b>Adrenergic agonists</b>	6
7.		<b>Adrenergic antagonists</b>	7
8.	<b>Drugs Affecting the Central Nervous System</b>	<b>Drugs for Neurodegenerative Diseases</b>	8
9.		<b>Anxiolytic and Hypnotic Drugs</b>	9
10.		<b>Antidepressants</b>	10
<b>Second EXAM</b>			
11.		<b>Antipsychotics</b>	11
12.		<b>Drugs for Epilepsy</b>	12
13.		<b>Opioids</b>	14
		<b>CNS stimulants</b>	16
14.		<b>Antihistamines</b>	30
<b>FINAL EXAM</b>			

### Methods of Assessment

<u>Allocation of Marks</u>	
Assessment Instruments	Mark
First examination	<b>20%</b>
Second examination	<b>20%</b>
Final examination	<b>40%</b>
Quizzes, Answers to lecture questions, Home works	<b>20%</b>
Total	<b>100%</b>

### Required Textbooks

- **Primary Textbook:**  
Pharmacology Lippincott's illustrated reviews, 6<sup>th</sup> edition (2015) by Karen Whalen
- **Secondary References**  
Basic & Clinical Pharmacology, by Bertram Katzung, 13<sup>th</sup> edition (2015)

Last updated on Feb, the 28<sup>th</sup>, 2017