

## Course Specification Student Version

<b>Course Title:</b>	Pharmacology
<b>Course Code:</b>	NURS 312
<b>Department:</b>	Basic Medical sciences
<b>Program:</b>	Bachelor of General Nursing
<b>College:</b>	Vision College in Riyadh
<b>Institution:</b>	Vision College in Riyadh
<b>Revised:</b>	July 2025

## A. Course Identification

1. Credit hours: 2 (2+0+0)
2. Level/year at which this course is offered: Level 5/Year 3
3. Pre-requisites for this course (if any): None
4. Co-requisites for this course (if any): None

## B. Teaching Methods

1	Lecture
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## C. Course Description and Objectives

### 1. Course Description

This course explores drugs, drug classifications, pharmacokinetics and pharmacodynamics based on pathophysiological concepts. The safe calculation and administration of medication orders are presented. Emphasis is placed on drug side effects and related nursing implications.

### 2. Main course Objective

Pharmacology for Nursing introduces the science of pharmacology and considers the role of the registered nurse in the preparation, management and administration of medications. The course provides a working description of the principles of pharmacodynamics and pharmacokinetics and identifies the role of nerve pathways in the action of drugs. An emphasis on understanding the action of medications, safe administration practices and competence in drug calculations is made.

### 3. Course Objectives

**By the end of this course, students should be able to:**

- Describe the basic principles of pharmacotherapy
- Determine and discuss normal and abnormal biochemical and physiological function of the human body
- Identify and changes in patients' conditions
- Identify appropriate nursing care plans and management for patients undergoing pharmacological treatments and interventions for specific diseases
- Prioritize and provide safe, effective, and efficient patient-centered and community-focused plans according to the available resources.

## D. Course Content

No	List of Topics
1	Core Concepts in Pharmacology (4 hours)
2	Pharmacokinetics (4 hours)
3	Pharmacodynamics (4 hours)
4	The Cardiovascular and Respiratory Systems (4 hours)
5	The Nervous System (2 hours)
6	Antimicrobial drugs (4 hours)
7	The Gastrointestinal System (2 hours)
8	The Endocrine and Genitourinary Systems (2 hours)
9	Accident (2 hours)
10	The Integumentary System, Musculoskeletal System, and Eyes/Ears (2 hours)

## E. Assessment Tools

#	Assessment task	Percentage of Total Assessment Score
1	Midterm written exam	30%
2	Final exam	40%
3	Quizzes & Assignment evaluation	30%
	<b>Total</b>	<b>100%</b>

## F. Learning Resources

<b>Essential References</b>	Focus on Nursing Pharmacology. 6Th Ed. Author: Amy M. Karch MSN RN. Publisher: LWW; 6 Edition (October 23, 2012)
<b>Supportive References</b>	<a href="https://www.sciencedirect.com/science/journal/00142999">https://www.sciencedirect.com/science/journal/00142999</a>
<b>Electronic Materials</b>	<a href="http://www.mednotes.net/notes/pharmacology/">http://www.mednotes.net/notes/pharmacology/</a> <a href="http://www.mosbysdrugconsult.com">http://www.mosbysdrugconsult.com</a>
<b>Other Learning Materials</b>	None