

Course Specification Student Version

Course Title:	Microbiology
Course Code:	NURS 213
Department:	Basic Medical Sciences
Program:	Bachelor of General Nursing
College:	Vision Colleges in Riyadh
Institution:	Vision Colleges in Riyadh
Revised:	July 2025

A. Course Identification

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

B. Teaching Methods

1	Lecture
2	Practical Session
3	Assignment

C. Course Description and Objectives

1. Course Description

This course covers principles of microbiology with emphasis on microorganisms and human disease. Topics include an overview of microbiology and aspects of medical microbiology, identification and control of pathogens, disease transmission, host resistance, and immunity.

2. Course Objectives

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

- Identify the principles of microbiology that are necessary for careers in nursing.
- Demonstrate awareness of the microbial life around them and the roles that these microbes play.
- Apply aseptic techniques in clinical settings.
- Describe the classification of microorganisms.
- Describe the general characteristics of bacteria, protozoa, yeasts/mold, and viruses.
- List some of the normal flora organisms.
- Discuss the pathogens that enter the body by various portals.
- Discuss different types of Immunity.
- State the importance, categories and uses of anti-microbes, antiprotozoal, Anti-fungal and anti-viral agents.

D. Course Content

No	List of Topics
1	Introduction to Microbiology
2	Bacterial Structure and Functions
3	Bacterial physiology and Genetics
4	Normal Flora
5	Antimicrobial substances, Sensitivity and Resistance
6	Pathogenesis of Microorganisms
7	Bacterial Pathogens and their Diseases I
8	Bacterial Pathogens and their Diseases II
9	Medical Mycology and actinomycetes
10	Medical Parasitology & Helminthes
11	Introduction to Virology
12	Introduction to Immunology

E. Assessment Tools

#	Assessment task	Percentage of Total Assessment Score
1	Assignments evaluation	10%
2	Quizzes	10%
3	Midterm Exam	20%
4	Final Written Exam	20%
5	Final Practical	40%
	Total	100%

F. Learning Resources

Essential References	<ol style="list-style-type: none"> 1. Practical hand book of microbiology (2015) 3th edition. Goldman, E. and Green, L. H. (eds) by Taylor & Francis Group, LLC. Medical. 2. Advanced Techniques in Diagnostic Microbiology, by Yi-Wei Tang and Stratton, C. W. (2018) 3rd edition. 3. Review of medical Microbiology and Immunology 15 Edition Levinson W. (Eds) 2018.
Supportive References	Lippincott Illustrated Reviews: Microbiology (Lippincott Illustrated Reviews Series) Fourth, North American Edition by Cynthia Nau Cornelissen Ph.D. (Editor), Marcia Metzgar Hobbs PhD (Editor).
Electronic Materials	<ol style="list-style-type: none"> 1. LMS resources 2. PubMed
Other Learning Materials	None