

COURSE OUTCOME MATRIX

COURSE SYLLABUS

PART 2 of 3

Course Number and Title	BS 127 Microbiology for Healthcare Professionals
-------------------------	--

Credit Hours	3
--------------	---

Course Description	This course provides those who plan to work in a healthcare profession with basic knowledge and principles of microbiology and epidemiology. A portal-of-entry approach is used to promote an understanding of epidemiology. Diseases are categorized by portal-of entry used to invade the human body and are subcategorized by the type of infectious agent.
--------------------	--

Prerequisite(s) and/or Corequisite(s)	Prerequisites: BS 118 or BS 124 or BS 115 and BS 116.
---------------------------------------	---

Required Textbooks/References/Course Materials:

Nester's Microbiology: A Human Perspective - Connect Access	10th	Anderson, Denise G. / Salm, Sarah / Allen, Deborah	McGraw-Hill Publishing Company	1264341962
Nester's Microbiology (Looseleaf) - With Connect	10th	Anderson, Denise	McGraw-Hill Publishing Company	1266359338

General Education Outcomes	
1	Utilize written and verbal language to discuss and comprehend information, incorporating a variety of technologies, such as text, data, and images (written language, verbal language, and information technology).
2	Identify and interpret relevant information in order to formulate an opinion or conclusion (critical thinking).
3	Demonstrate and communicate computational methods and mathematical reasoning in a variety of formats (using words, tables, graphs, mathematical equations, etc., as appropriate) (quantitative literacy and fluency).
4	Communicate in appropriate ways with those who are culturally diverse (intercultural competence).

Program Outcomes	
1	Students demonstrate a broad knowledge of science.
2	Students demonstrate how science processes work.
3	
4	
5	
6	
7	
8	
9	
10	

	Course Outcomes (CO)	Bloom's Domain for CO (C, A, P), Category, and Level	Program Outcome(s)	Written Language	Verbal Language	Information Technology	Critical Thinking	Quantitative Literacy and Fluency	Intercultural Competence
1	Recognize the general plan of eukaryotic and prokaryotic cells.	C-Remembering (1)	1	0	0	0	0	0	0
2	Identify the various aspects of the life and death of microorganisms.	C-Remembering (1)	1	0	0	0	0	0	0
3	Explain various infectious diseases that include but are not limited to the respiratory system, wound infections, digestive system, nervous system, and genitourinary tract infections.	C-Understanding (2)	1	1	0	0	1	0	0
4	Recognize methods of microbial control.	C-Remembering (1)	1	0	0	0	0	0	0
5	Describe principles of epidemiology.	C-Remembering (1)	1	0	0	0	0	0	1
6	Interpret the use of appropriate terminology to effectively communicate information relating to microbiology.	C-Understanding (2)	1	1	0	0	1	0	0
7	Explain the relationships between microbiology and actual life circumstances, especially with allied health situations.	C-Understanding (2)	1	1	0	0	1	0	1
8	Distinguish the innate and adaptive immune systems.	C-Understanding (2)	1	1	0	0	1	0	0
9									
10									

Bloom's Domain Legend

C = Cognitive
A = Affective
P = Psychomotor

General Education Outcome Legend

2 = Included and Measurable
1 = Introduced and/or Minimally Addressed and Not Measurable
0 = Not included

Approved: October 14, 2021
Reviewed: November 5, 2021