## COURSE OUTCOME MATRIX COURSE SYLLABUS PART 2 of 3

Course Number and Title ML 202 Clinical Microbiology

Credit Hours 5 Credit Hours

Course A Laboratory Course: 4 hours lecture and 2 hours in the lab each week. This is a course in theoretical and practical medical microbiology. The student learns to obtain specimens for bacterial, fungal, and viral cultures, to isolate in pure culture, to identify various pathogenic and commensal organisms, and to identify human parasites of the blood, tissue, and intestinal tract. Various pathogenic organisms are correlated to disease states as well.

Prerequisite(s)	Prerequisite: ML 200.
and/or	
Corequisite(s)	Co-requisite: ML 201.

## Required Textbooks/References/Course Materials:

Introduction to Diagnostic Microbiology for the Laboratory Science	2nd	Maria Dannessa Delost	Jones & Bartlett Publishers	1284199738

	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/Department Outcomes
1	Graduates will demonstrate skills, knowledge and proper attitudes to realize a career as entry level Medical Laboratory Technicians in hospitals and other health care environments.
2	Graduates must demonstrate professionalism and conduct that reflects safe, legal, and ethical behavior.
3	Graduates will have the necessary knowledge to be able to pass a national certification examination.
4	Graduates must be able to communicate in a facilitative, purposeful and respectful manner with patients, families, colleagues, and other members of the health care team.
5	Graduates will have knowledge of prospective job information in an effort to achieve 100% placement within 3 months of graduation or for continuing their undergraduate education in medical technology or other field of their choice.
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	Course Outcomes (CO)	Bloom's Domain for CO (C, A, P), Category, and Level	Program/ Department Outcome(s)	Written Language	Verbal Language	Information Technology	Critical Thinking	Quantitative Literacy and Fluency	Intercultural Competence
1.	Complete common microbiology procedures and biochemical identification processes for the identification of various bacteriology, virology, parasitology and mycology organisms.	P – Perfect (3)	1, 2, 3	0	0	0	1	0	0
2.	Employ the use of common microbiology procedures and biochemical identification processes for the identification of various bacteriology, virology, parasitology and mycology organisms.	C- Analyzing (4)	1, 3	0	0	0	1	0	0
3.	Describe specimen collection requirements for various microbiological procedures.	C- Remembering (1)	1, 3	0	0	0	1	0	0
4.	Comprehend various microbiological media and stains and their use to grow, isolate and identify organisms.	C - Understanding (2)	1, 3	0	0	0	1	0	0
5.	Recognize common and selected uncommon pathogenic and nonpathogenic organisms encountered in the microbiology department.	C-Remembering (1)	1, 3	0	0	0	1	0	0
6.	Demonstrate the use of quality control of instruments, reagents, and procedures used in the Microbiology lab.	C-Applying (3)	1,	0	0	0	1	0	0
7.	Classify various antimicrobial drugs and the methods for assaying their effectiveness.	C- Understanding (2)	1, 3	0	0	0	1	0	0
8.	Interpret case study laboratory results used in the diagnosis and treatment of patients.	C- Evaluating (5)	1, 3, 4	1	0	0	1	1	0
9.	Practice laboratory safety rules to guard against chemical, physical, and biological hazards.	A-Responding to Phenomena (2)	1, 2, 3	0	0	0	1	0	0
	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					

Reviewed:

October 29, 2021