

COURSE OUTCOME MATRIX COURSE SYLLABUS PART 2 of 3

Course Number and Title	ML 101 Clinical Hematology
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Credit Hours	5 Credit Hours
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Course Description	A Laboratory Course: 4 hours in the classroom and 2 hours in the lab each week. Beginning with an overview of medical and allied health organizations, careers, and philosophy, this course teaches students to perform complete blood counts, phlebotomy, hematology and coagulation procedures, and to interpret results of these tests as they relate to anemia, leukemia, or hemostatic disorders in the human body.
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Prerequisite(s) and/or Corequisite(s)	Prerequisite: Admission to the Medical Laboratory Technology program.
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Required Textbooks/References/Course Materials:

Hematology in Practice	3rd	Betty Ciesla	F.A. Davis Company	0803668244
Clinical Hematology Atlas	5th	Carr and Rodak	Saunders	0323322492
Basic Clinical Laboratory Techniques	6th	Estridge	Reynolds, Delmar Publishing	1111138362

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.	Identify the composition, origin, and maturation process of erythrocytes, leukocytes, and platelets and their inclusion bodies and abnormalities.	C-Remembering (1)	1,3	1	0	0	1	0	0
2.	Perform the collection of venous blood properly using appropriate anticoagulants.	P-Perfecting (3)	1,3	0	0	0	1	0	0
3.	Demonstrate the ability to use common hematology laboratory equipment such as the microscope, centrifuge, spectrophotometer, and the hemacytometer properly.	P-Manipulating (2)	1,3	0	0	0	1	0	0
4.	Perform routine, manual and special hematological procedures with accuracy.	P-Perfecting (3)	1,3	0	0	0	1	1	0
5.	Recognize reference ranges for hematology and coagulation procedures.	C-Remembering (1)	1,3	0	0	0	1	0	0
6.	Use knowledge of coagulation factors, deficiencies and test results to distinguish fibrinolytic and hemostatic disorders.	C-Appling (3)	1,3	0	0	0	1	0	0
7.	Compare and contrast the technologies of automated hematology and coagulation equipment and results versus manual methods.	C-Analyzing (4)	1,3	0	0	1	1	0	0
8.	Interpret laboratory results in the diagnosis and treatment of patients for different hematological diseases such as anemias and leukemia's.	C-Evaluating (5)	1,3,4	0	0	0	1	0	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

Approved: May 2021
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