SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

ACADEMIC AFFAIRS

Course Number:	MLT-222	Department:	Clinical Lab Science		
Course Title:	Clinical Laboratory Seminar	Semester:	Summer	Year:	2022

COURSE OBJECTIVES: Continuation of MLT-220 and 221. Supervised clinical experience is obtained in an affiliated laboratory under the supervision of a qualified medical technologist and pathologist. The rotation schedule provides experience in the following departments: Immunohematology, Hematology, and Urinalysis. Pre-Requisite: MLT-221.

	Course	Competencies
	Objective	
gy	Cognitive Objective	 Upon conclusion of the each clinical practicum rotation, the student will demonstrate a thorough knowledge of all cognitive objectives according to established laboratory protocols as outlined in procedure manuals, assigned text and materials and/or defined by verbal instruction to the attainment level identified in the CLS Clinical Course Matriculation Policy. Describe specimen requirements for all tests performed within the department using available reference materials. Demonstrate an understanding of the theories and/or principles employed in the major procedures or protocols within the department. Demonstrate an understanding and knowledge of principles and operational procedures used for instrumentation/automation in the department. Interpret standard operating procedures for all tests performed within the department.
Hematolo	Psychomotor Objectives	 Upon conclusion of this clinical practicum, the student will have a thorough knowledge of the department functions and be able to complete the following assigned tasks according to established laboratory protocols as outlined in procedure manuals, assigned text and materials and/or defined by verbal instruction, within the specified time of the rotation, and to the attainment level identified in the CLS Matriculation Clinical Course Policy. Recognize unacceptable specimens and take appropriate actions. Process and log in acceptable specimens for hematological/coagulation analysis. Perform the maintenance on the major instrumentation used within the department Determine stability and outdates of departmental reagents. Properly operate the major instrumentation within the department. Perform and properly interpret all staining procedures used in this department.

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		 Perform and interpret appropriate quality control and quality assurance for all procedures. Perform testing on unknown specimens using manual procedures/tests within the department and obtain test results at 95% accuracy when compared with results obtained by an experienced technologist. Identify performance issues and institute troubleshooting procedures on the major instrumentation used within the department. Recognize normal and abnormal results (reference intervals) according to the standards of the particular laboratory. Recognize implausible results. Maintain legible and accurate records.
/sis	Cognitive Objective	 Upon conclusion of the each clinical practicum rotation, the student will demonstrate a thorough knowledge of all cognitive objectives according to established laboratory protocols as outlined in procedure manuals, assigned text and materials and/or defined by verbal instruction to the attainment level identified in the CLS Clinical Course Matriculation Policy. Describe specimen requirements for all tests performed within the department using available reference materials. Demonstrate an understanding of the theories and/or principles employed in the major procedures or protocols within the department. Demonstrate an understanding and knowledge of principles and operational procedures used for instrumentation/automation in the department. Interpret standard operating procedures for all tests performed within the department.
Urinaly	Psychomotor Objectives	 Upon conclusion of this clinical practicum, the student will have a thorough knowledge of the department functions and be able to complete the following assigned tasks according to established laboratory protocols as outlined in procedure manuals, assigned text and materials and/or defined by verbal instruction, within the specified time of the rotation, and to the attainment level identified in the CLS Matriculation Clinical Course Policy. Recognize unacceptable specimens and take appropriate actions. Process and log in acceptable specimens for urinalysis and body fluid analysis. Perform the maintenance on the major instrumentation used within the department Determine stability and outdates of departmental reagents. Properly operate the major instrumentation within the department. Perform and properly interpret all staining procedures used in this department.

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		 Perform and interpret appropriate quality control and quality assurance for all procedures. Perform testing on unknown specimens using manual procedures/tests within the department and obtain test results at 95% accuracy when compared with results obtained by an experienced technologist. Identify performance issues and institute troubleshooting procedures on the major instrumentation used within the department. Recognize normal and abnormal results (reference intervals) according to the standards of the particular laboratory. Recognize implausible results. Maintain legible and accurate records.
nohematology	Cognitive Objective	 Upon conclusion of the each clinical practicum rotation, the student will demonstrate a thorough knowledge of all cognitive objectives according to established laboratory protocols as outlined in procedure manuals, assigned text and materials and/or defined by verbal instruction to the attainment level identified in the CLS Clinical Course Matriculation Policy. Describe specimen requirements for all tests performed within the department using available reference materials. Demonstrate an understanding of the theories and/or principles employed in the major procedures or protocols within the department. Demonstrate an understanding and knowledge of principles and operational procedures used for instrumentation/automation in the department. Explain the storage requirements, value and appropriate use of various blood components. Interpret standard operating procedures for all tests performed within the department.
Immu	Psychomotor Objectives	Upon conclusion of this clinical practicum, the student will have a thorough knowledge of the department functions and be able to complete the following assigned tasks according to established laboratory protocols as outlined in procedure manuals, assigned text and materials and/or defined by verbal instruction, within the specified time of the rotation, and to the attainment level identified in the CLS Matriculation Clinical Course Policy. Recognize unacceptable specimens and take appropriate actions. Process and log in acceptable specimens for immumohematology. Determine correct identification of patient sample (100 % accuracy).

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	 Prepare donor for phlebotomy/assist with the phlebotomy procedure with special attention to possible adverse donor reactions during the phlebotomy procedure. Perform the maintenance on the major instrumentation used within the department Determine stability and outdates of departmental reagents. Determine eligibility of possible donor for blood donation. Perform all testing necessary (blood pressure, hematocrit, etc.) Properly operate the major instrumentation within the department. Perform and interpret appropriate quality control and quality assurance for all procedures. Perform testing on unknown specimens using manual procedures/tests within the department and obtain test results at 100% accuracy when compared with results obtained by an experienced technologist. Perform procedures for checking in donor units and for the maintenance of the blood bank inventory with 100% accuracy. Demonstrate the proper procedure for the selection of and release to medical personnel of appropriate
	 blood and components for transfusion. Identify performance issues and institute troubleshooting procedures on the major instrumentation used within the department. Recognize normal and abnormal results (reference intervals) according to the standards of the particular laboratory. Recognize implausible results. Maintain legible and accurate records.
Affective Behaviors	 Throughout the clinical practicum, students will comply with and/or perform all affective behavior objectives as outlined in this document and in the course syllabus. Assessment of compliance and/or performance of affective behaviors will be determined by ongoing, direct observations made by clinical instructors. Students will demonstrate proper professional appearance by being neatly groomed and adhering to departmental dress codes. Students will maintain a rigid attendance policy in which there are only excused absences or tardiness. Students will demonstrate dependability by notifying on campus instructor of tardiness and/or absences tardiness. Students will demonstrate honesty by always being accountable for their actions and notifying superviso the event of an error. Students will demonstrate workload organization by maintaining a clean and orderly work area, properly documenting procedures and following oral and/or written directions. Students will communicate (verbally and nonverbally) effectively and courteously in the workplace and demonstrate the ability to work in a team.

	 Students accept constructive criticism as a part of the learning process. Students will show respect for authority and the hierarchy within the laboratory. Students will demonstrate appropriate professional attitudes and behavior and perform assigned tasks v interest and enthusiasm. Practices all safety procedures, infection control and confidentiality while working within the laboratory.
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