AUBURN UNIVERSITY MONTGOMERY
Medical Laboratory Science
OnLine Option
Clinical Experience Checklist
Hematology/Hemostasis

STUDENT: _____

CLINICAL SITE: _____

The following pages contain the concepts/basic skills and tasks/test procedures which are to be completed during the hematology/hemostasis clinical experience. These concepts/basic skills and tasks/test procedures have been designated as those in which the student must demonstrate competence to perform as an entry-level medical technologist/clinical laboratory scientist at the completion of clinical experience. Each of these concepts/basic skills and tasks/test procedures is numbered and is correlated with the curriculum objectives for this area. Any additional concepts/skills/tasks/test procedures performed at your clinical site which are not contained in the list can be recorded on the blank form at the end of the checklist.

As the student demonstrates the required level of competency in the various concepts/skills/tasks/ test procedures, please verify this by recording the date and your initials in the appropriate space. **IT IS THE STUDENT'S RESPONSIBILITY TO KEEP THIS FORM AND TO HAVE IT AVAILABLE FOR THE SIGNATURE AND DATE AT THE APPROPRIATE TIME.** Upon completion of the clinical experience, the student is to return this form to the AUM MLS Program Director.

The Concepts/Basic Skills section contains the concepts and skills that need to be reinforced and used throughout the hematology/hemostasis clinical experience. These require ongoing evaluation during the time spent in the Hematology/Hemostasis Department. Competency will be determined at the end of the clinical experience when in the professional opinion/judgement of the clinical instructor(s), the concepts and basic skills on this checklist have been completed at an 85% level. An 85% competency level is defined as explaining each concept or performing each basic skill at an 85% accuracy level. The AUM MLS Faculty considers 85% as that level necessary to perform as an entry-level MLS.

The Tasks/Test Procedure section contains specific functions which the program considers to be the minimal essential functions for an entry- level MLS. The number beside each task/test procedure is the number of times the specific task/test procedure must be completed. The "Required Level of Competency" is the level of accuracy that must be attained with **each** repetition. The student is considered competent when the indicated number of test(s) have been completed at the indicated level of accuracy.

The Hematology/Hemostasis content area consist of a three semester series of courses. Therefore, this checklist must be completed by the end of the semester in which the last course in this series is taken by the student. Failure to complete any one concept/basic skill/task/test procedure at the required competency level will result in failure of this course and dismissal from the program. In the event that competency could not be obtained for a particular concept/basic skill/task/test procedure through no fault of the clinical site or the student, indication of this should be noted on the checklist along with a brief explanation. If this situation arises, failure to complete the required competency will not be counted against the student.

AUBURN UNIVERSITY MONTGOMERY
Medical Laboratory Sciences
Hematology Clinical Experience Checklist
Concepts/Basic Skills

Hematology Concepts/Basic Skills	Required Level of Competency (%)	Competent
1.15 Identify examples of each developmental stage of the cells of peripheral blood.	**85**	
1.18 List the normal value of each of the cell populations of peripheral blood.	**100**	

16.1 Explain the following principles of hematology instrumentation:
     Electrical Impedance
     Light Scatter
	85	

16.2 Explain the methods used for identification of the various cell characteristics in an automated system.	**85**	
16.5 Discuss sample conditions which may interfere with accurate RBC,WBC, and platelet counting and methods of correcting these conditions to obtain accurate test results.	**85**	
16.7 Observe all quality control assurance/control measures to ensure accurate test results.	**85**	
16.8 Given patient data generated by automated hematology systems, analyze to determine accurate interpretation of test results.	**85**	
16.9 Determine the proper action to be taken when a test result is flagged, according to the established policies of the clinical laboratory.	**85**	
16.10 Evaluate quality control information to determine accuracy of test results.	**85**	
16.11 Observe troubleshooting procedures performed by laboratory personnel on hematology instruments.		
17.1 Demonstrate compliance with proper documentation of all testing performed in the hematology laboratory.	**85**	
17.2 Identify the uses of computer systems in the hematology laboratory.	**85**	

AUBURN UNIVERSITY MONTGOMERY
Medical Laboratory Sciences
Hematology Clinical Experience Check List
Tasks/Test Procedures

Hematology Tasks/Test Procedures	Required Level of Competency (%)	Competent
2.6 Demonstrate proficiency in distinguishing reactive/variant lymphocytes. **No. 5**	**85**	
10.4 Demonstrate proficiency in the identification of red blood cells of abnormal shape, size, color. **No. 5**	**85**	
10.5 Evaluate and report the degree of abnormal shape, size, color according to established protocol of the clinical laboratory. **No. 5**	**85**	
13.12 Demonstrate proficiency in identification of cells demonstrating Hemoglobin S &/or, C&/or, SC morphology. **No. 1**	**85**	
13.13 Perform screening procedure(s) for presence of Hemoglobin S, following approved procedures. **No. 1**	**85**	
14.6 Observe the collection of bone marrow specimen from a patient. **No. 1**		
14.7 Observe the processing of a bone marrow specimen in the hematology/special hematology laboratory. **No. 1**		
15.4 Perform manual cell counts, using approved technics. **No. 1**	**85**	

Hematology Tasks/Test Procedures	Required Level of Competency (%)	Competent
15.5 Calculate and report manual cell counting test results according to established protocol. **No. 1**	**85**	
15.8 Perform reticulocyte counts by automated &/or manual methods. **No. 3**	**85**	
15.19 Perform erythrocyte sedimentation rate by approved method. **No. 3**	**85**	
15.22 Demonstrate competence in preparation and staining of blood smears, to the satisfaction of the instructor. **No. 10**	**85**	
15.24 Demonstrate competence in examination of peripheral blood smears, performance of differential counts on smears, correlation of cell counts/morphology, and reporting test results, according to established protocol. **No. 15**	**85**	
15.25 Demonstrate proficiency in correlation of platelet count with the peripheral blood smear. **No. 5**	**85**	
16.3 While observing cell histograms, identify the cell characteristics shown. **No. 10**	**85**	
16.4 While observing cell scattergrams, identify normal and abnormal cell populations. **No. 10**	**85**	
16.6 Perform maintenance procedures, according to established protocol, to the satisfaction of the instructor. **No. 5**	**85**	

Additional Testing Procedures

Skill/Task/Test Procedure	*Required Level of Competency (%)	Competent

* As these additional procedures are specific to the individual clinical affiliate, the level of competency required is left to the discretion of the clinical instructor(s).

Comments/Notes:

AUBURN UNIVERSITY MONTGOMERY
Medical Laboratory Sciences
Coagulation Component Clinical Experience Checklist
Concepts/Basic Skills

Coagulation Concepts/Basic Skills	Required Level of Competency (%)	Competent
4.4 Report coagulation test results in the correct units.	85	

4.8 Demonstrate an understanding of the significance of normal and abnormal test results:
        Prothrombin Time Test
        Activated Partial Thromboplastin Test
	85	

4.10 Demonstrate proficiency in coagulation testing using semi-automated/automated methods	85	
4.12Adhere to established quality control methods/system when performing coagulation testing to the satisfaction of the instructor.	85	

7.7 Name the coagulation tests used to monitor:
        Heparin Therapy
        Warfarin/Coumarin Therapy
	85	

AUBURN UNIVERSITY MONTGOMERY
Medical Laboratory Sciences
Coagulation Component Clinical Experience Check List
Tasks/Test Procedures

Task/Test Procedure	Required level of competency (%)	Competent
2.4 Demonstrate proficiency in the performance of bleeding times, according to approved procedure, to the satisfaction of the instructor. **No. 1**	**85**	
2.10 Demonstrate proficiency in evaluation of platelet data generated hematology instruments. **No. 10**	**85**	
4.2 Demonstrate proficiency in the performance of prothrombin time testing. **No. 10**	**85**	
4.3 Demonstrate proficiency in the performance of activated partial thromboplastin time testing. **No. 10**	**85**	
4.10 Demonstrate proficiency in coagulation testing using semi-automated/automated methods. **No. 10**	**85**	

Additional Testing Procedures

Skill/Task/Test Procedure	*Required Level of Competency (%)	Competent

* As these additional procedures are specific to the individual clinical affiliate, the level of competency required is left to the discretion of the clinical instructor(s).
Comments/Notes:

Each teaching technologist should sign and initial below.

<u>Signature</u>   <u>Initials</u>

Checklist Review

Hospital Representative: _____ Date: _____

AUM Representative: _____ Date: _____