

CLINICAL/MEDICAL LABORATORY TECHNOLOGY TRANSFER ASSURANCE GUIDE (TAG)

April 4, 2008

Ohio Transfer Module:		
Ohio Transfer Module (OTM) Requirements: 36-40 semester hours / 54-60 quarter hours. Students should select courses within the OTM that complement the selected major and meet any specific general education requirements. Students are encouraged to complete the OTM to ensure maximum transferability and application of credits.		
<u>Required Disciplines</u>	<u>Minimum Required Hours</u>	<u>Recommended Courses</u>
Area I. English Composition Area II. Mathematics Area III. Arts & Humanities Area IV. Social Sciences Area V. Natural & Physical Science	3 sem. / 5-6 qtr. 3 sem. / 3 qtr. 6 sem. / 9 qtr. 6 sem. / 9 qtr. 6 sem. / 9 qtr.	Statistics Microbiology with lab Full year sequence of Chemistry I&II for the science major w/lab Full year sequence of Biology I&II for the science major w/lab - check institution for requirement
Advising Notes: Additional courses beyond the minimum required hours, from any of the disciplines listed above, will count toward the completion of the OTM (36-40 semester hours or 54-60 quarter hours). Students need to check with the institution to which they are transferring for information regarding specific requirements for the following courses: Biology w/lab for the science major (generally one year sequence), Anatomy with lab, Physiology, *Organic Chemistry w/ lab and (generally one year sequence w/ General Chemistry pre-requisite) and *Biochemistry (typically two courses are required). * Please note: An institution may require either Organic Chemistry or Biochemistry, or possibly both courses.		
Major Courses – Hours/courses listed below that count toward the major or pre-major requirements.		
a. Introduction to Medical (Clinical) Laboratory Science – OHL008	Credits: 2-3 semester hours / 3-5 quarter hours	
Advising Notes:		
b. Hematology – OHL009	Credits: 3-4 semester hours / 4 - 6 quarter hours	
Advising Notes:		
c. Body Fluids – OHL010	Credits: 2-3 semester hours / 3-5 quarter hours	
Advising Notes:		
Transfer Assurance Guide Total Guaranteed Credits (Range)		
• Ohio Transfer Module	36 - 40 sem.	54 - 60 qtr.
• Pre-major/Major	0 – 7 to 10 sem.	0 – 10 to 16 qtr.

Institutional Requirements: For entrance and graduation, a transfer student must meet all institutional requirements which would include, but may not be limited to: minimum grade point average, residency requirements, upper division credits attained, minimum grades in specific courses, performance requirements (ex. dance, music) and other requirements of native students from the same institution.

OHL008 - INTRODUCTION TO MEDICAL (CLINICAL) LABORATORY TECHNOLOGY
2-3 Semester Hours / 3-5 Quarter Hours

Related TAGs: Medical Laboratory

Outcomes marked with an asterisk are essential and must be taught.

- 1. Discuss the different careers available in the profession of medical technology.***
- 2. Explain the differences between the terms licensure, certification, registration and accreditation.***
- 3. Describe the different governing groups and agencies involved in the profession of medical technology.***
- 4. Identify the organizations associated with the following initials and describe what they are*:**
 - a. ASCLS***
 - b. ASCP***
 - c. MT/CLS***
 - d. MLT/CLT***
 - e. NCA***
 - f. NAACLS***
 - g. TJC***
 - h. CAP***
 - i. CLIA***
- 5. Identify the major routine tests perform in the following sections of the clinical lab.***
 - a. Blood bank***
 - b. Chemistry***
 - c. Hematology***
 - d. Immunology***
 - e. Microbiology***
 - f. Urinalysis***
- 6. Define the term “universal precautions”. Identify the two primary blood borne pathogens they are meant to prevent.***

- 7. Create a clinical laboratory safety checklist that identifies key elements in the four categories below:***
 - a. Biohazards***
 - b. Fire hazards***
 - c. Electrical hazards***
 - d. Chemical hazards***
- 8. Describe the proper procedure for performing a venipuncture.***
- 9. Perform a successful venipuncture.***
- 10. List common anticoagulants used in collecting blood for laboratory testing.***
- 11. Cite the appropriate order of draw when additive tubes are used.***
- 12. Describe the proper procedure for obtaining quality specimens for the lab (venous, arterial, and capillary).***
- 13. Describe the proper procedures for processing whole blood specimens when serum or plasma is need including general storage requirements.***
- 14. Identify the major components of a Code of Medical Ethics and apply to selected situations in Clinical Laboratory Science.***
- 15. Demonstrate the ability to use basic clinical laboratory equipment and instrumentation.***
- 16. Discuss the importance of quality assurance in a clinical laboratory setting.***

OHL009 - HEMATOLOGY

3-4 Semester Hours/4-6 Quarter Hours

Related TAGs: Medical Laboratory

Outcomes marked with an asterisk are essential and must be taught.

Laboratory Areas

1. **Demonstrate safe and accountable behaviors within the laboratory setting.***
2. **Perform, within acceptable limits, analysis of blood and body fluids through manual and automated techniques.***
3. **Perform, within acceptable limits, the identification and quantification of normal and abnormal formed elements of blood.***
4. **Perform and evaluate quality control in the hematology laboratory.***

Complete Blood Count (CBC)

5. **Compare and contrast the reference methods for the parameters of the complete blood count.***
6. **Correlate the results of basic hematology laboratory procedures with normal and abnormal disease states.***
7. **Identify each component of the complete blood count and the relevant method of measurement.***

Coagulation

8. **Describe the process of coagulation and the screening tests to assess the process.***

Hematopoiesis

9. **Describe the process of basic hematopoiesis, including the sites and development of hematopoietic organs and major pathophysiologic factors.***
10. **Describe and identify the cells in all stages of hematopoiesis.***

OHL010 - BODY FLUIDS

2-3 Semester Hours / 3-5 Quarter Hours

Related TAGs: Medical Laboratory

- 1. Identify the components of the urinary system and state the function of each.***
- 2. Perform and evaluate quality control/assurance procedures used in analysis of body fluids.***
- 3. Demonstrate safe and accountable behaviors within the laboratory setting.***
- 4. Describe the processes of urine and body fluid sample collection and storage of results.***
- 5. State the effects of inappropriate collection and storage of specimens on results.***
- 6. Describe, perform, and assess the physical, chemical, and microscopic examination of urine and correlate the results to normal and abnormal renal and non-renal conditions.***
- 7. Compare and contrast the principle of urinalysis methods including sensitivity, specificity, and sources of error.***
- 8. Describe the formation, composition, and function of synovial, cerebrospinal, serous, amniotic, and seminal fluids.***
- 9. Describe the methods used in routine body fluid analyses and correlate results with normal and disease states.***
- 10. Identify formed elements and correlate to normal and abnormal states.***

MEDICAL LABORATORY TAG – FACULTY PARTICIPANTS

Name		Institution
Robert	Harr	Bowling Green State University
Julie	Dudas	Columbus State Community College
Les	King	Columbus State Community College
Sondra	Sutherland	Jefferson Community College
Kathryn	Ertter	Lakeland Community College
Carla	Anderson	Marion Technical College
Deborah	Bates	Marion Technical College
Kitty	Kisker	Ohio Board of Regents/Facilitator
Sally	Rudmann	Ohio State University (The)
Stephen	Wilson	Ohio State University (The)
Linda	Graeter	University of Cincinnati Medical Center
Russell	Cheadle	University of Rio Grande
Phyllis	Pacifico	Wright State University
Vicki	Huntsman	Zane State College