

Montgomery County Community College
MLT 235
Clinical Practicum in MLT I
3-0-12

COURSE DESCRIPTION:

The student applies basic skills learned on campus to three clinical areas: blood bank; hematology and microbiology. Students spend 12 hours per week for 4 weeks in each clinical area at an off-campus clinical site, performing routine tests under supervision. This course is subject to a course fee. Refer to <http://mc3.edu/adm-fin-aid/paying/tuition/course-fees> for current rates.

REQUISITES

Previous Course Requirements

- MLT 123 Immunohematology Lecture
- MLT 124 Immunohematology Laboratory
- MLT 125 Hematology Lecture
- MLT 126 Hematology Laboratory
- BIO 141 Clinical Microbiology I with a minimum grade of "C"

Concurrent Course Requirements

None

LEARNING OUTCOMES Upon successful completion of this course, the student will be able to:	LEARNING ACTIVITIES	EVALUATION METHODS
1. Demonstrate entry level skill in collecting blood samples from cooperative adult patients.	Clinical Rotation/ Demonstration and Practice	Daily Clinic Record Evaluations Summative Clinic Evaluations
2. Perform clerical tasks related to processing of laboratory tests.	Clinical Rotation/ Demonstration and Practice	Daily Clinic Record Evaluations Summative Clinic Evaluations
3. Handle reagents according to standard protocol while preparing clinical specimens for analysis.	Clinical Rotation/ Demonstration and Practice	Daily Clinic Record Evaluations Summative Clinic Evaluations

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
4. Operate instruments with close supervision according to predefined instructions and perform analyses according to prescribed methods.	Clinical Rotation/ Demonstration and Practice	Daily Clinic Record Evaluations Summative Clinic Evaluations Practical Examinations
5. Organize samples, reference materials, reagents, equipment and instruments according to analytical requirements.	Clinical Rotation/ Demonstration and Practice	Daily Clinic Record Evaluations Summative Clinic Evaluations Practical Examinations
6. Monitor and record data generated during testing.	Clinical Rotation/ Demonstration and Practice	Daily Clinic Record Evaluations Summative Clinic Evaluations Practical Examinations Written Examinations
7. Identify problems (e.g., "out-of-control" data, abnormal results, instrument malfunctions) which occur during testing.	Clinical Rotation/ Demonstration and Practice	Daily Clinic Record Evaluations Summative Clinic Evaluations Practical Examinations Written Examinations
8. Work safely to minimize hazards to self, co-workers, patients and the environment.	Clinical Rotation/ Demonstration and Practice	Daily Clinic Record Evaluations Summative Clinic Evaluations
9. Apply information learned in campus MLT courses to procedures completed in the clinical setting.	Clinical Rotation/ Demonstration and Practice	Daily Clinic Record Evaluations Summative Clinic Evaluations Practical Examinations Written Examinations
10. Demonstrate behavior and attitudes consistent with those of a novice laboratory professional.	Clinical Rotation/ Demonstration and Practice	Daily Clinic Record Evaluations Summative Clinic Evaluations

At the conclusion of each semester/session, assessment of the learning outcomes will be completed by course faculty using the listed evaluation method(s). Aggregated results will be submitted to the Associate Vice President of Academic Affairs. The benchmark for each learning outcome is that *70% of students will meet or exceed outcome criteria.*

SEQUENCE OF TOPICS:

Blood Bank Rotation

1. ABO, Rh, Weak D
2. Direct Antiglobulin Tests, Quality Control
3. Antibody Screens, Prenatal Workups
4. Antibody Panels, Rh Immune Globulin

Hematology Rotation

1. Automated Complete Blood Counts and Coagulation Tests
2. Erythrocyte Sedimentation Rates
3. Reticulocyte Counts, Ivy Bleeding Times
4. Urinalysis, Occult Blood Tests

Microbiology Rotation

1. Set-ups, Gram Stains
2. Plate Reading (Observe)
3. Plate Reading and Subcultures (Observe)
4. Blood Cultures, Plate Reading and Interpretation of Subcultures (Observe)

LEARNING MATERIALS:

All textbooks used in the prerequisite courses and MLT Student Manual.

Other learning materials may be required and made available directly to the student and/or via the College's Libraries and/or course management system.

COURSE APPROVAL:

Reapproved by: Bradley Gottfried	Date: 12/3/1998
Prepared by: John C. Flynn, Jr.	Date: 8/1998
Revised by: Debra Lynn Eckman, M.S., MT (ASCP)	Date: 1/2009
VPAA/Provost Compliance Verification: Dr. John C. Flynn, Jr.	Date: 9/11/2009

Revised by: Debra Lynn Eckman, M.S., MT (ASCP)	Date: 10/2012
VPAA/Provost or designee Compliance Verification: Victoria L. Bastecki-Perez, Ed.D.	Date: 11/8/2012

Revised by: Debra Lynn Eckman, M.S., MT (ASCP)	Date: 10/13/2017
VPAA/Provost or designee Compliance Verification:	Date: 11/13/2017



This course is consistent with Montgomery County Community College's mission. It was developed, approved and will be delivered in full compliance with the policies and procedures established by the College.