

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

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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 0 1 394.27 277.4

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

