

Montgomery County Community College
MLT 106
Phlebotomy
4-2-8

COURSE DESCRIPTION:

This is a comprehensive, one-semester AMT-approved course in the fundamentals and practice of phlebotomy (blood specimen collection). Lecture topics include venipuncture, capillary collection, safety, medical terminology, orientation to the clinical laboratory and health care, and specimen handling and processing. Students spend 100 hours in a hospital laboratory practicing blood collection techniques under supervision. Upon completion of the course, students are eligible to sit for national certification examinations and may seek employment as phlebotomists. Additionally, students are certified in American Heart Association Adult Cardiopulmonary Resuscitation (CPR). This course is subject to a course fee. Refer to <http://mc3.edu/adm-fin-aid/paying/tuition/course-fees> for current rates.

REQUISITES

High School Diploma or GED

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
1. Describe the organizational structure of a clinical laboratory and how the laboratory function of phlebotomy plays a role in providing a comprehensive health care plan.	Lecture/Discussion Assigned Readings Written Examinations	Examinations
2. Relate the anatomy and physiology of body systems to basic laboratory tests and common pathologic conditions using appropriate medical terminology.	Lecture/Discussion Assigned Readings Written Examinations	Examinations

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
3. Use a variety of collection equipment to perform venipunctures and capillary collection on cooperative adult and pediatric patients.	Laboratory/Demonstration and Practice AV/Multimedia Materials Role Playing Models/Mannequins and Manipulatives.	Study Questions Clinical Evaluation Daily Laboratory Review Performance Competencies
4. Describe test requisition systems and procedures for the correct handling, transport and processing of specimens to ensure quality and properly identified patient specimens.	Lecture/Discussion Assigned Readings Written Examinations	Case Studies Examinations
5. Apply principles of safety, aseptic technique and infection control to the phlebotomy procedure.	Laboratory/Demonstration and Practice Role Playing	Performance Competencies Clinical Evaluation Daily Laboratory Review
6. Explain the consequences of phlebotomy complications and describe strategies to reduce their occurrence.	Lecture/Discussion Role Playing Assigned Readings Written Examinations	Case Studies Examinations
7. Discuss the legal and ethical implications of Phlebotomy.	Lecture/Discussion Research Resources Assigned Readings Written Examinations	Case Studies Examinations

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
8. Apply effective communication and interaction skills with patients and colleagues.	Laboratory/Demonstration and Practice Role Playing	Performance Competencies Clinical Evaluation Case Studies Daily Laboratory Review
9. Demonstrate professional conduct and appearance in the student laboratory and at the clinic site.	Laboratory/Demonstration and Practice Role Playing	Performance Competencies Clinical Evaluation Daily Laboratory Review
10. Perform adult CPR, point-of-care testing and special collection procedures.	Laboratory/Demonstration and Practice AV/Multimedia Materials Role Playing Models/Mannequins and Manipulatives.	Examinations Daily Laboratory Review Performance Competencies

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:

1. Introduction to Phlebotomy, the Clinical Laboratory, and Health Care Systems (Diversity in Healthcare is included here.)
2. Venipuncture Equipment
3. Routine Venipuncture Collection
4. Preanalytical Considerations
5. Capillary Collection and Equipment (Includes Special Collections)
6. Specimen Handling and Computer Systems
7. Cardiopulmonary Resuscitation
8. Laboratory Safety
9. Point-of-Care Testing and Quality Control
10. Nonblood Specimens and Tests
11. Anatomy and Physiology Review and Medical Terminology
12. Circulatory System
13. Arterial Punctures
14. Medical-Legal Issues Related to Phlebotomy
15. AMT Seminar and Career Opportunities
16. Competencies
17. Clinical Practicum

LEARNING MATERIALS:

Textbook: McCall, R. (2020). *Phlebotomy Essentials* (7th ed. enhanced). Jones & Bartlett Learning

Textbook: McCall, R. (2020). *Student Workbook for Phlebotomy Essentials* (7th ed. enhanced). Jones & Bartlett Learning

Textbook: *AHA Heartsaver First Aid CPR AED Student Workbook* (2020). AED Superstore

Suggested Reading:

McCall, R. (2020). *Phlebotomy Exam Review* (7th ed. enhanced). Jones & Bartlett Learning

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: B. Gottfried	Date: 12/3/1998
Prepared by: John C. Flynn, Jr.	Date: 2/1998
Revised by: Debra Lynn Eckman, M.S., MT (ASCP)	Date: 1/2009
VPAA/Provost Compliance Verification: Dr. John C. Flynn, Jr.	Date: 10/29/2009
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: 10/2012
Revised by: Kathleen C. Perlmutter, MBA, MT (ASCP)	Date: 7/26/2016
VPAA/Provost or designee Compliance Verification: Victoria L. Bastecki-Perez, Ed.D.	Date: 7/27/2016
Revised by: Kathleen C. Perlmutter, MBA, MT (ASCP)	Date: 4/12/2017
VPAA/Provost or designee Compliance Verification: Victoria L. Bastecki-Perez, Ed.D.	Date: 5/22/2017
Revised by: Kathleen C. Perlmutter, MBA, MT (ASCP) Debra Lynn Eckman, M.S., MT (ASCP)	Date: 10/13/2017
VPAA/Provost or designee Compliance Verification: Victoria L. Bastecki-Perez, Ed.D.	Date: 11/13/2017
Revised by: Debra Lynn Eckman, M.S., MT (ASCP)	Date: 2/22/2022
VPAA or designee Compliance Verification:	Date: 3/2022



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.