

MA-143L: BASIC MEDICAL ASSISTING LABORATORY

Cuyahoga Community College

Viewing: MA-143L : Basic Medical Assisting Laboratory

Board of Trustees:

December 2025

Academic Term:

Fall 2026

Subject Code

MA - Medical Assisting

Course Number:

143L

Title:

Basic Medical Assisting Laboratory

Catalog Description:

Develops core clinical skills in medical assisting through hands-on practice. Students perform medication administration, support vaccination protocols, complete blood collection procedures, and assist providers within scope of practice. Training emphasizes safe technique, compliance with professional standards, and skill application in outpatient settings to ensure effective patient care.

Credit Hour(s):

1

Lab Hour(s):

3

Requisites

Prerequisite and Corequisite

MA-1200 Introduction to Medical Assisting, concurrent enrollment in MA-1430 Basic Medical Assisting, and departmental approval.

Outcomes

Course Outcome(s):

Accurately obtain, interpret, and document patient vital signs while communicating findings to the healthcare team.

Essential Learning Outcome Mapping:

Not Applicable: No Essential Learning Outcomes mapped. This course does not require application-level assignments that demonstrate mastery in any of the Essential Learning Outcomes.

Objective(s):

1. Demonstrate correct technique in measuring temperature, pulse, respiration, blood pressure, and oxygen saturation.
2. Apply strategies to minimize error in vital sign collection.
3. Compare results with reference ranges and identify abnormal values requiring provider notification.
4. Communicate results professionally to patients and healthcare providers.
5. Document vital sign results correctly in the health record according to protocol.

Course Outcome(s):

Prepare patients and exam rooms for physical examinations ensuring comfort, infection control, accurate documentation, and patient dignity.

Essential Learning Outcome Mapping:

Not Applicable: No Essential Learning Outcomes mapped. This course does not require application-level assignments that demonstrate mastery in any of the Essential Learning Outcomes.

Objective(s):

1. Assemble and set up all necessary supplies and equipment.
2. Demonstrate proper room preparation, including cleaning and infection control measures.
3. Position the patient correctly for various physical exam scenarios.
4. Obtain and record vital signs and health history.
5. Provide patients with clear and professional instructions regarding examination procedures.
6. Maintain patient privacy, safety, and comfort throughout the encounter.

Course Outcome(s):

Perform capillary puncture safely and accurately while maintaining aseptic technique, patient comfort, and proper documentation.

Essential Learning Outcome Mapping:

Not Applicable: No Essential Learning Outcomes mapped. This course does not require application-level assignments that demonstrate mastery in any of the Essential Learning Outcomes.

Objective(s):

1. Demonstrate correct site selection on the finger for capillary puncture.
2. Assemble and prepare all required equipment for the procedure.
3. Apply appropriate Personal Protective Equipment (PPE) before initiating the procedure.
4. Perform step-by-step capillary puncture using correct technique.
5. Demonstrate immediate response and reporting procedure following a sharps injury.
6. Accurately document capillary puncture results in the patient's chart.

Course Outcome(s):

Perform venipuncture procedures using appropriate site selection, technique, infection control, and patient-centered communication.

Essential Learning Outcome Mapping:

Not Applicable: No Essential Learning Outcomes mapped. This course does not require application-level assignments that demonstrate mastery in any of the Essential Learning Outcomes.

Objective(s):

1. Demonstrate correct identification of venipuncture sites within the antecubital space.
2. Assemble and prepare all required venipuncture equipment.
3. Apply appropriate PPE and hand hygiene before the procedure.
4. Perform venipuncture step-by-step using the correct insertion, collection, and withdrawal technique.
5. Demonstrate proper sharps disposal and response to injury.
6. Document venipuncture procedure and results in the patient record.
7. Identify and verbalize contraindicated conditions for venipuncture when encountered in practice scenarios.

Course Outcome(s):

Administer medications safely and accurately, adhering to infection control and safety standards.

Essential Learning Outcome Mapping:

Not Applicable: No Essential Learning Outcomes mapped. This course does not require application-level assignments that demonstrate mastery in any of the Essential Learning Outcomes.

Objective(s):

1. Administer oral medication.
2. Administer correct anatomical sites for parenteral medications.
3. Assemble and prepare correct equipment for each injection route.
4. Verify the rules of medication administration using the "rights"
5. Accurately measure and prepare dosages using syringes and vials.

6. Demonstrate correct hand hygiene, PPE, and aseptic technique during preparation and administration.
 7. Position patients and landmarks appropriately for injection site selection.
 8. Administer injections using correct technique to minimize patient discomfort.
 9. Provide patient education regarding purpose, side effects, and aftercare.
 10. Dispose of needles and biohazard waste according to OSHA and facility protocol.
 11. Document medication administration accurately in the patient record.
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Methods of Evaluation:

1. Skill assessments
2. Quizzes
3. Tests
4. Homework
5. Worksheets

Course Content Outline:

1. Capillary Puncture
 - a. Appropriate finger site selection
 - b. Equipment and supplies
 - c. PPE
 - d. Step sequence for procedure
 - e. Sharps injury response
 - f. Documentation procedures
2. Venipuncture
 - a. Venipuncture sites in the antecubital space
 - b. Equipment and supplies
 - c. PPE
 - d. Step sequence for procedure
 - e. Sharps injury response
 - f. Documentation procedures
 - g. Contraindications for venipuncture
3. Patient Preparation for Physical Examinations
 - a. Equipment and supplies
 - b. Room preparation and infection control
 - c. Patient greeting and positioning
 - d. Vital signs and health history
 - e. Patient instructions
 - f. Patient privacy, dignity, and safety
4. Injections
 - a. Oral medications
 - b. Vital signs
 - c. Temperature
 - d. Pulse
 - e. Respiration
 - f. Blood pressure
 - g. Oxygen saturation
 - h. Error prevention strategies
 - i. Interpretation of results and provider notification
 - j. Communication of results
 - k. Documentation procedures

Religious Accommodation

Before reviewing the course schedule, students should carefully review the following religious accommodation policy and other required instructional policies:

Religious Accommodation:

Students seeking an accommodation for absences permitted under Ohio's Testing Your Faith Act must provide the instructor with written notice of the specific dates for which the student requires an accommodation and must do so not later than fourteen (14) days after the first day of instruction. Please submit requests for accommodations at this link: <https://portal2.tri-c.edu/ReligiousAccommodation/ReligiousAccommodationForm>. Students with questions about their religious accommodations under Ohio's Testing Your Faith Act may contact the College's Office of General Counsel and Legal Services by phone at 216.987.4856 or via email at legal@tri-c.edu.

Other Required Instructional Policies:

<https://www.tri-c.edu/student-resources/curriculum/documents/syllabus-part-b.pdf>

Weekly Schedule

	Topics
Week 1	Course orientation Introduction to vital signs
Week 2	Vital Signs
Week 3	Vital signs Equipment and supplies for physical examination
Week 4	Patient greeting and positioning
Week 5	Vital signs and health history review Patient instructions for examinations
Week 6	Capillary puncture
Week 7	Vital Signs Capillary puncture
Week 8	Injection routes: intramuscular, subcutaneous, intradermal
Week 9	Injection routes: intramuscular, subcutaneous, intradermal Dosage measurement and preparation
Week 10	Injection routes: intramuscular, subcutaneous, intradermal Dosage measurement and preparation
Week 11	Injection routes: intramuscular, subcutaneous, intradermal Dosage measurement and preparation
Week 12	Venipuncture
Week 13	Venipuncture
Week 14	Venipunctures
Week 15	Venipunctures, Capillary puncture, Injections
Week 16	Final assessment

The Course Schedule is subject to change due to pedagogical needs, instructor discretion, parts of term, and unexpected events.

Required/Recommended Readings

Readings will be from one of the below recommended textbooks, as selected by the individual instructors.

- Booth, K. *Medical assisting: Administrative and clinical procedures with anatomy and physiology*
- EHR Go. (n.d.). *Educational electronic health record for healthcare programs*.

Resources for the Instructor

Blesi C. (2021) *Principles of Pharmacology for Medical Assisting*, Cenage.

Niedzwiechi A, Pepper J. (2023) *Kinn's The Medical Assistant: An Applied Learning Approach*, Elsevier.

Booth KA, Whicker LG, Wyman VM, Thompson J. (2023) *Medical Assisting: Administrative and Clinical Procedures*, McGraw Hill.

Booth, K. (2025) *Medical assisting: Administrative and clinical procedures with anatomy and physiology*, McGraw Hill.

Additional Resources for the Instructor

EHR Go. (n.d.). *Educational electronic health record for healthcare programs*. Retrieved January 18, 2025, from <https://ehrgo.com/>

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