

ARIZONA WESTERN COLLEGE  
SYLLABUS

## MDA 121 MEDICAL TECHNICIAN

Credit Hours: 6 Lec 4, Lab 4

PREREQUISITES: MDA 120

COURSE DESCRIPTION

An integrative approach to learning and developing the clinical procedural skills required to work in an ambulatory care setting. Includes the collection and documentation of vital signs, patient history, patient assessment, and partnering with patients to provide them with resources to achieve and maintain health. Also includes Clinical Laboratory Improvement Amendment (CLIA) waived testing, safety in medication administration, principles of nutrition, and legal and ethical considerations. Includes performing and documenting appropriate diagnostic measures, identifying pathology, and initiating treatment prescribed by a licensed provider. Also includes Exposure Control Plan, Blood Borne Pathogens Standard, Personal Protective Equipment (PPE), Environmental Protection and disposal of Chemical and Biological Waste based on Occupational Health and Safety Administration (OSHA) guidelines and Center for Disease Control (CDC) regulations to assure safety in the medical practice.

1. COURSE GOAL

- 1.1 Describe and apply Occupational Safety and Health Administration (OSHA) guidelines and current Center for Disease Control (CDC) regulations to assure safety and protection for patients and providers in the delivery of patient care in an ambulatory environment.
- 1.2 Identify pathologic conditions and perform prescribed diagnostic procedures to confirm presence or Absence of disease.
- 1.3 Assist with performing a physical examination to determine patient diagnosis and subsequent plan of Care.
- 1.4 Demonstrate clinical skills include, vital signs, blood pressure, temperature, pulse, respirations, Weight, height (infant length), and head circumference (infant), pulse oximetry readings.
- 1.5 Critical thinking, patient assessments, patient care, patient concerns regarding procedures.
- 1.6 Diagnostic Procedures including Electrocardiography, Venipuncture, Capillary puncture, Pulmonary Function testing.
- 1.7 Medication administration, oral medications, parenteral medication, injection sites, classifications Indications for use and desired affects, side effects, adverse reactions.
- 1.8 Rules of medication administration, Right patient, Right medication, Right dosage, Right route, Right Time, Right technique, and Right documentation.
- 1.9 Patient exam preparation, patient positioning, procedures and treatments, procedure supplies.
- 1.10 Perform specimen collection, quality control measures, and CLIA waived tests, Hematology, Chemistry, Urinalysis, Immunology, and Microbiology.
- 1.11 Describe dietary needs, dietary supplements, special diets, weight control, and diabetes, Cardiovascular disease, hypertension, cancer, lactose sensitivity, gluten-free, food allergies.

2. OUTCOMES

Upon satisfactory completion of this course, students will be able to:

- 2.1 Perform critical-thinking skills to determine patient assessments and patient care.
- 2.2 Describe rules of medication administration.
- 2.3 Demonstrate clinical skills to obtain patient vitals, specimen collection, electrocardiograms.
- 2.4 Utilize learning resources to assist in patient in disease preventions and proper dietary needs.
- 2.5 Identify OSHA and CDC guidelines regulations in the medical setting and procedures.
- 2.6 Concepts of effective communication, patient coaching, health education, treatment plans.
- 2.7 Describe proper use of medical terminology and medical symbols in a health care setting.
- 2.8 Demonstrate safety techniques post exposure to blood, bodily fluids, and needle stick injuries.
- 2.9 Describe the legal implications of error in patient care, protocols, and procedures.
- 2.10 Effectively perform venipuncture, capillary punctures, and proper specimen collection Techniques.

3.

#### METHODS OF INSTRUCTION

- 3.1 Lecture
- 3.2 Assigned readings
- 3.3 Multi-media Presentations
- 3.4 Guided group discussions
- 3.5 Return demonstrations

4.

#### LEARNING ACTIVITIES

- 4.1 Self-Assessments
- 4.2 Group Collaborations/assignments
- 4.3 Written and reading assignments
- 4.4 Classroom demonstrations/discussions
- 4.5 Supervised laboratory experiences

5.

#### EVALUATION

- 5.1 Assignments
- 5.2 Participation
- 5.3 Written tests/quizzes
- 5.4 Computerized tests/exams

6.

#### STUDENT RESPONSIBILITIES

- 6.1 Under AWC Policy, students are expected to attend every session of class in which they are enrolled.
- 6.2 Classroom Assignments: Students are responsible for work missed and for completing all work before the next class meeting. Students are responsible for participating in all oral drills and for taking all exams.
- 6.3 If a student is unable to attend the course or must drop the course for any reason, it will be the responsibility of the student to withdraw from the course. Students who are not

attending as of the 45th day of the course may be withdrawn by the instructor. If the student does not withdraw from the course and fails to complete the requirements of the course, the student will receive a failing grade.

- 6.4 Americans with Disabilities Act Accommodations: Arizona Western College provides academic accommodations to students with disabilities through AccessABILITY Resource Services (ARS). ARS provides reasonable and appropriate accommodations to students who have documented disabilities. It is the responsibility of the student to make the ARS Coordinator aware of the need for accommodations in the classroom prior to the beginning of the semester. Students should follow up with their instructors once the semester begins. To make an appointment call the ARS front desk at (928) 344-7674 or ARS Coordinator at (928) 344-7629, in the College Community Center (3C) building, next to Advising.
- 6.5 Academic Integrity: Any student participating in acts of academic dishonesty including, but not limited to, copying the work of other students, using unauthorized “crib notes”, plagiarism, stealing tests, or forging an instructor’s signature—will be subject to the procedures and consequences outlined in AWC’s Student Code of Conduct.
- 6.6 Textbooks and materials: Students are required to bring notebook or looseleaf book, pens, pencils, dictionaries, and purchase textbook required for class.
- 6.7 Arizona Western College students are expected to attend every class session in which they are enrolled. To comply with Federal Financial Aid regulations (34 CFR 668.21), Arizona Western College (AWC) has established an Attendance Verification process for "No Show" reporting during the first 10 days of each semester. Students who have enrolled but have never attended class may be issued a “No Show” (NS) grade by the professor or instructor and receive a final grade of “NS” on their official academic record. An NS grade may result in a student losing their federal financial aid.
- For online classes, *student attendance in an online class is defined as the following* (FSA Handbook, 2012, 5-90):
- Submitting an academic assignment
  - Taking an exam, an interactive tutorial or computer-assisted instruction
  - Attending a study group that is assigned by the school
  - Participating in an online discussion about academic matters
  - Initiating contact with a faculty member to ask a question about the academic subject studied in the course