

ARIZONA WESTERN COLLEGE
SYLLABUS

MDA 230 ESSENTIAL SCIENCES FOR MEDICAL ASSISTING

3 credits, 2 lec, 2 lab

Co-requisite: MDA 220, MDA 240

COURSE DESCRIPTION

Overview of the structure and dynamics of the human body.

1. COURSE GOAL

Foundational study of human anatomy and physiology to include nutrition and health promotion, body structures and organ systems, pathophysiology, and disease processes.

- 1.1. Locate, label, and recognize the basic structures of the human body.
- 1.2. Summarize the functions of each organ system.
- 1.3. Relate normal physiological processes to a loss of homeostasis in each organ system.
- 1.4. Integrate an understanding of the functioning of the organs within each organ systems and the interactions of the body systems at the organismal level.

2. COMPETENCIES

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

OUTCOMES:

- 2.1 Define anatomy and physiology.
- 2.2 Describe the organization of body structure.
- 2.3 Define and describe the mechanisms of health and disease.
- 2.4 Identify the major structures of the integumentary, skeletal, muscular, cardiovascular, immune, respiratory, urinary, digestive, nervous, endocrine, and reproductive systems.
- 2.5 Apply descriptive, anatomical, physiological, and directional terminology to the human body and its organization.
- 2.6 Analyze how components of the body systems function.
- 2.7 Correlate the structure of tissues with their functions.
- 2.8 Analyze the role of DNA in controlling cell functions.
- 2.9 Classify the major chemical components of living things according to their structure and function.
- 2.10 Characterize the basic structure and functions of the cell, the organelles, and all its parts.

3. METHODS OF INSTRUCTION

- 3.1 Lecture
- 3.2 Multi-media presentations
- 3.3 Group discussions

4. LEARNING ACTIVITIES

- 4.1 Group discussions
- 4.2 Written and reading assignments
- 4.3 Oral presentations
- 4.5 Classroom demonstrations

5. EVALUATION

- 5.1 Class participation
- 5.2 Homework assignments
- 5.3 Quizzes
- 5.4 Final exam

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

