

**MDCA 1409**  
**Anatomy & Physiology for Medical Assistants**  
**Western Texas College**

I. Basic Course Information

- A. Course Description: Emphasis on structure and function of human cells, tissues, organs, and systems with overview of common pathophysiology.
- B. Prerequisites: None

II. Student Learning Outcomes

- A. Identify and correlate cells, tissues, organs, and systems of the human body; differentiate normal from abnormal structure and function; and differentiate all body systems, their organs, and relevant pathophysiology

III. Online Testing Requirements

- A. The midterm and final exam must be proctored by an approved testing organization. (Ask your instructor for more details.)
- B. Students are not allowed to use their book or notes of any kind while taking their proctored tests and exams.

IV. Major Course Requirements: The grade for this course will be determined as follows:

- A. Exams: 40%
- B. Quizzes: 25%
- C. Homework: 35%
- D. Grading scale:
  - A= (90-100%)
  - B= (80-89%)
  - C= (70-79%)
  - D= (60-69%)
- E. Students must earn a grade "C" or higher to successfully complete this course.
- F. Students must attain a "C" or higher to remain in the program.

V. Information on Books and Other Course Materials

- A. UNDERSTANDING ANATOMY & PHYSIOLOGY/Gale Sloan Thompson. ----2nd Ed. ISBN 9780-8036-2287-6
- B. WORKBOOK: UNDERSTANDING ANATOMY & PHYSIOLOGY/Gale Sloan Thompson. A visual, Auditory, Interactive Approach ISBN: 978-0-8036-4374-1 2nd Ed. Medical Assisting Administrative and Clinical Procedures with Anatomy &

Physiology includes Workbook 6th edition ISBN# 978-1-259-1977-1

VI. Other Policies, Procedures and important dates: Please refer to the WTC Course Catalog for the following:

- A. Campus Calendar
- B. Final exam schedule
- C. How to drop a class
- D. Withdrawal information
- E. Student Conduct/Academic Integrity
- F. Class Attendance
- G. Students with disabilities

VII. Course Sequence & Content

<b>Week</b>	<b>Topic</b>
Week 1	<b>Course Overview</b>
Week 2	<b>Ch. 1 Orientation to the Human Body</b> Organization of the Body Organ Systems Anatomical Terms Homeostasis
Week 3	<b>Ch. 13 Blood</b> Components of blood Blood Cell Formation Red Blood Cells White Blood Cells Platelets and Control of Bleeding
Week 4	<b>Ch. 5 Integumentary System</b> Structure of the Skin Skin color Functions of the Skin Appendages of the Skin Quiz 1
Week 5	<b>Ch. 6 Bones &amp; Bone Tissues</b> Bone Functions Classification of Bones Bone Tissue Bone Marrow Bone Fractures Bone Remodeling

	<p><b>KEY TERMS</b> Exam 1</p>
Week 6	<p><b>Ch. 7 Skeletal System</b> Overview of the Skeletal System The Skull The Vertebral Column The Thoracic Cage Pectoral Girdle Upper Limb Pelvic Girdle Lower Limb Ch. 7 Key Terms</p>
Week 7	<p><b>Ch. 9 Muscular System</b> Types of Muscle Skeletal Muscle Structure Muscle Contraction and Relaxation Superficial Muscles How Muscles are Named Major Muscles of the Body</p> <p><b>Quiz 2</b></p>
Week 8	<p><b>Ch. 12 Endocrine System</b> Overview of the Endocrine System Hormones The Pituitary Gland and Hypothalamus Pineal Gland Thymus Thyroid Gland Adrenal Glands Pancreas</p> <p><b>Quiz 3</b></p>
Week 9	<p><b>Ch. 14 The Heart</b> Blood Flow Through the Heart</p>
Week 10	<p><b>Ch. 17 Respiratory System</b> Upper Respiratory Tract Lower Respiratory Tract Pulmonary Ventilation Gas Exchange</p> <p><b>Quiz 4</b></p>
Week 11	<p><b>Ch. 18 Urinary System</b> Urine Formation</p>

	Composition of Urine Storage and Elimination of Urine
Week 12	<b>Ch. 20 Digestive System</b> Overview of the Digestive System Mouth Pharynx Esophagus Stomach Liver, Gallbladder, and Pancreas Small Intestine Chemical Digestion and Absorption Large Intestines  <b>Quiz 5</b>
Week 13	<b>Ch. 23 Reproductive Systems</b> Male Reproductive System Female Reproductive System  <b>Quiz 6</b>
Week 14 - 15	Course Review
Week 16	<b>Final Exam</b>

Disclaimer: Sequence & Content is subject to change at the instructor's discretion.