

Medical Terminology for Health Professions Course Outline

- I. Module 1 - Introduction to Medical Terminology
 - a. Vocabulary Lists
 - b. Objectives
 - c. Word Parts Are the Key
 - i. Overview
 - ii. The three types of word parts
 - d. Word Roots (Combining Forms)
 - i. Combining Vowels
 - ii. Commonly Used Word Roots (Combining Forms)
 - e. Suffixes
 - i. Suffixes Meaning "Pertaining To"
 - ii. Suffixes as Noun Endings
 - iii. Suffixes Meaning "Abnormal Conditions"
 - iv. Suffixes Related to Pathology
 - v. Suffixes Related to Procedures
 - vi. The Double RRs
 - f. Prefixes
 - i. Contrasting and Confusing Prefixes
 - g. Determining Meanings Based on Word Parts
 - h. Taking Terms Apart
 - i. As an Example
 - i. Medical Dictionary Use
 - i. Guessing at Meanings
 - ii. If You Know How to Spell the Word
 - iii. If You Don't Know How to Spell the Word
 - iv. Look Under Categories
 - j. Pronunciation
 - i. A Word of Caution
 - k. Spelling is Always Important
 - l. Using Abbreviations
 - m. Singular and Plural Endings
 - n. Basic Medical Terms
 - o. Look-Alike Sound-Alike Terms and Word Parts
 - i. arteri/o, ather/o and arthr/o
 - ii. Ileum and Ilium
 - iii. Infection and Inflammation
 - iv. Laceration and Lesion
 - v. Mucous and Mucus

- vi. myc/o, myel/o and my/o
 - vii. – ologist and ology
 - viii. – ostomy and – otomy
 - ix. Palpation and Palpitation
 - x. Prostrate and Prostate
 - xi. pyel/o, py/o and pyr/o
 - xii. Supination and Suppuration
 - xiii. Suturing and Ligation
 - xiv. Triage and Trauma
 - xv. Viral and Virile
- II. Module 2 – The Human Body in Health and Disease
- a. Vocabulary List
 - b. Objectives
 - c. Anatomic Reference Systems
 - i. Anatomy and Physiology Defined
 - ii. The Anatomic Position
 - iii. Body Planes
 - 1. Vertical Planes
 - 2. Horizontal Planes
 - iv. Body Directions
 - d. Major Body Cavities
 - i. The Dorsal Cavity
 - ii. The Ventral Cavity
 - iii. Divisions of the Abdomen
 - iv. Regions of the Thorax and Abdomen
 - v. Peritoneum
 - vi. Laparoscopic Procedures
 - e. Cytology
 - i. Chromosomes
 - ii. DNA
 - iii. Terms Related to Genetics
 - iv. Genetic Disorders
 - v. Genetic Counseling
 - f. Congenital Disorders
 - g. Histology
 - i. Stem Cells
 - ii. Types of Tissue
 - 1. Epithelial Tissue
 - 2. Connective Tissues
 - 3. Muscle Tissue
 - 4. Nerve Tissue
 - iii. Pathology of Tissue Formation
 - h. Glands
 - i. Pathology and Procedures of Glands
 - i. Organs and Body Systems
 - j. Pathology
 - i. Disease Transmission
 - ii. Outbreaks of Diseases
- III. Module 3 – The Skeletal System
- a. Vocabulary List
 - b. Objectives
 - c. Functions of the Skeletal System

- d. Structures of the Skeletal System
- e. The Structure of Bones
 - i. The Tissues of Bone
 - ii. Bone Marrow
 - iii. Cartilage
 - iv. Anatomic Landmarks of a Bone
- f. Joints
 - i. Types of Joints
 - 1. Sutures
 - 2. Symphyses
 - 3. Synovial Joints
 - ii. Structures of Synovial Joints
 - 1. Ligaments
 - 2. Synovial Membrane and Fluid
 - 3. Bursa
- g. The Skeleton
 - i. Axial Skeleton
 - ii. Appendicular Skeleton
 - iii. Bones of the Skull
 - 1. Bones of the Cranium
 - 2. Auditory Ossicles
 - 3. Bones of the Face
 - iv. Thoracic Cavity, Ribs and Sternum
 - v. Shoulders
 - vi. Arms
 - vii. Wrists and Hands
 - viii. Spinal Column
 - 1. Structures of Vertebrae
 - 2. Types of Vertebrae
 - 3. Intervertebral Disks
 - 4. Sacrum
 - 5. Coccyx
 - ix. Pelvic Girdle
 - x. Legs and Knees
 - xi. Ankles and Feet
- h. Medical Specialties Related to the Skeletal System
- i. Pathology of the Skeletal System
 - i. Joints
 - ii. Arthritis
 - 1. Rheumatoid Arthritis
 - iii. Spinal Column
 - 1. Spina Bifida
 - 2. Curvatures of the Spine
 - iv. Bone
 - 1. Tumors of Bone
 - v. Osteoporosis
 - vi. Fractures
- j. Diagnostic Procedures of the Skeletal System
- k. Treatment Procedures of the Skeletal System
 - i. Medications
 - ii. Bone Marrow Transplants
 - 1. Autologous Transplants
 - 2. Allogenic Transplants

3. Cord Blood

- I. Joints
 - m. Joint Replacement
 - n. Spinal Column
 - o. Bones
 - p. Treatment of Fractures
 - i. External Fixation
 - ii. Internal Fixation
- IV. Module 4 – The Muscular System
- a. Vocabulary List
 - b. Objectives
 - c. Functions of the Muscular System
 - d. Structures of the Muscular System
 - i. Muscle Fibers
 - ii. Fascia
 - iii. Tendons
 - iv. Aponeurosis
 - e. Types of Muscle Tissue
 - i. Skeletal Muscles
 - ii. Smooth Muscles
 - iii. Cardiac Muscle
 - f. Characteristics of Muscles
 - i. Antagonistic Muscle Pairs
 - ii. Contraction and Relaxation
 - iii. Muscle Innervation
 - g. Range of Motion
 - i. Abduction and Adduction
 - ii. Flexion and Extension
 - iii. Elevation and Depression
 - iv. Rotation and Circumduction
 - v. Supination and Pronation
 - vi. Dorsiflexion and Plantar Flexion
 - h. How Muscles are Named
 - i. Origin and Insertion
 - ii. Muscles Named for Their Action
 - iii. Muscles Named for Their Location
 - iv. Muscles Named for Fiber Direction
 - v. Muscles Named for Their Size
 - vi. Muscles Named for Their Shape
 - i. Medical Specialties Related to the Muscular System
 - i. Skeletal Muscle Disorders
 - ii. Smooth Muscle Disorders
 - iii. Cardiac Muscle Disorders
 - j. Pathology of the Muscular System
 - i. Fibers, Fascia and Tendons
 - ii. Muscles
 - 1. Hernias
 - 2. Muscle Tone
 - 3. Voluntary Muscle Movement
 - 4. Muscle Function
 - 5. Myoclonus
 - 6. Myasthenia Gravis
 - 7. Muscular Dystrophy

- 8. Fibromyalgia Syndrome
- iii. Repetitive Stress Disorders
 - 1. Myofascial Damage
 - 2. Rotator Cuff Injuries
 - 3. Carpal Tunnel Syndrome
 - 4. Cervical Radiculopathy
 - 5. Epicondylitis
 - 6. Heel Spurs
- iv. Sports Injuries
- v. Paralysis
- k. Diagnostic Procedures of the Muscular System
- l. Treatment Procedures of the Muscular System
 - i. Medications
 - ii. Physical Therapy
 - 1. Activities and Daily Living
 - iii. Fascia
 - iv. Tendons
 - v. Muscles
- V. Module 5 – The Cardiovascular System
 - a. Vocabulary List
 - b. Objectives
 - c. Functions of the Cardiovascular System
 - d. Structures of the Cardiovascular System
 - e. The Heart
 - i. The Pericardium
 - ii. The Walls of the Heart
 - iii. The Blood Supply to the Myocardium
 - iv. The Heart Chambers
 - v. The Heart Valves
 - vi. Systemic and Pulmonary Circulation
 - vii. The Heartbeat
 - 1. The Sinoatrial Node
 - 2. The Atrioventricular Node
 - 3. The Bundle of His
 - 4. Electrical Waves
 - viii. Heart Sounds
 - f. The Blood Vessels
 - i. The Arteries
 - ii. The Capillaries
 - iii. The Veins
 - 1. The Venae Cavae
 - iv. The Pulse and Blood Pressure
 - g. The Blood
 - i. Plasma
 - ii. Erythrocytes
 - iii. Leukocytes
 - iv. Thrombocytes
 - v. Blood Types
 - vi. The Rh Factor
 - vii. Blood Gases
 - h. Medical Specialties Related to the Cardiovascular System
 - i. Pathology of the Cardiovascular System
 - i. Coronary Artery Disease

- ii. Congestive Heart Failure
- iii. Forms of Carditis
- iv. Heart Valves
- v. Arrhythmias
- vi. Fibrillation
- vii. Blood Vessels
- viii. Arteries
- ix. Veins
- x. Thromboses and Embolisms
- xi. Blood Disorders
 - 1. Cholesterol
- xii. Blood Cells
- xiii. Anemias
- xiv. Hypertension
- j. Diagnostic Procedures of the Cardiovascular System
 - i. Electrocardiography
 - ii. Ultrasonic Diagnostic Procedures
- k. Treatment Procedures of the Cardiovascular System
 - i. Antihypertensive Medication
 - ii. Additional Medications
 - iii. Cleaning Blocked Arteries
 - iv. Coronary Artery Bypass Graft
 - v. Heart
 - vi. Blood Vessels, Blood and Bleeding
- VI. Module 6 - The Lymphatic and Immune System
 - a. Vocabulary List
 - b. Objectives
 - c. Medical Specialties Related to the Lymphatic and Immune Systems
 - d. Functions and Structures of the Lymphatic System
 - i. Functions of the Lymphatic System
 - ii. Structures of the Lymphatic System
 - 1. Lymph Fluid
 - 2. Lymph Vessels
 - 3. Lymph Nodes
 - 4. The Tonsils
 - 5. The Vermiform Appendix and Peyer's Patches
 - 6. The Spleen
 - 7. The Thymus
 - e. Pathology and Diagnostic Procedures of Lymphatic Structures
 - f. Functions and Structures of the Immune System
 - i. Functions of the Immune System
 - ii. Structures of the Immune System
 - iii. The First Lines of Defense
 - iv. The Immune Response
 - v. Specialized Cells of the Immune Reactions
 - vi. Immunity
 - vii. Immune System Response Factors
 - g. Pathology and Diagnostic Procedures of the Immune System
 - i. Allergic Reactions
 - ii. Autoimmune Disorders
 - iii. Immunodeficiency
 - h. Treatment Procedures of the Immune System
 - i. Immunotherapy

- ii. Antibody Therapy
 - iii. Immunosuppression
 - i. Pathogenic Organisms
 - i. Bacteria
 - ii. Fungus, Yeast and Parasites
 - iii. Viruses
 - iv. Medications to Control Infections
 - j. Oncology
 - i. Terms Related to Tumors
 - 1. Benign
 - 2. Malignant
 - ii. Staging
 - iii. Carcinomas
 - iv. Sarcomas
 - v. Lymphomas
 - 1. Hodgkin's Disease
 - 2. Non-Hodgkin's Lymphomas
 - vi. Blastomas
 - vii. Breast Cancer
 - 1. Types of Breast Cancer
 - 2. Detection of Breast Cancer
 - 3. Treatment of Breast Cancer
 - viii. Cancer Treatments
 - 1. Surgery
 - 2. Chemotherapy
 - 3. Radiation Therapies
- VII. Module 7 - The Respiratory System
 - a. Vocabulary List
 - b. Objectives
 - c. Functions of the Respiratory System
 - d. Structures of the Respiratory System
 - i. The Nose
 - ii. The Tonsils
 - iii. The Sinuses
 - iv. The Pharynx
 - 1. Protective Swallowing Mechanisms
 - v. The Larynx
 - vi. The Trachea
 - vii. The Bronchial Tree
 - viii. The Alveoli
 - ix. The Lungs
 - x. The Mediastinum
 - xi. The Pleura
 - xii. The Diaphragm
 - e. Respiration
 - i. External Respiration
 - 1. The Exchange of Gases Within the Lungs
 - ii. Internal Respiration
 - f. Medical Specialties Related to the Respiratory System
 - g. Pathology of the Respiratory System
 - i. Chronic Obstructive Pulmonary Diseases
 - ii. Upper Respiratory Diseases
 - iii. Pharynx and Larynx

- 1. Voice Disorders
 - iv. Trachea and Bronchi
 - v. Pleural Cavity
 - vi. Lungs
 - 1. Tuberculosis
 - 2. Pneumonia
 - 3. Environmental and Occupational Lung Diseases
 - 4. Pulmonary Fibrosis
 - 5. Cystic Fibrosis
 - vii. Breathing Disorders
 - viii. Lack of Oxygen
 - ix. Sudden Infant Death Syndrome
 - h. Diagnostic Procedures of the Respiratory System
 - i. Treatment Procedures of the Respiratory System
 - i. Medications
 - ii. Nose and Throat
 - iii. Trachea and Bronchi
 - iv. Lungs, Pleura and Thorax
 - v. Respiratory Therapy
- VIII. Module 8 - The Digestive System
 - a. Vocabulary List
 - b. Objectives
 - c. Functions of the Digestive System
 - d. Structure of the Digestive System
 - i. The Gastrointestinal Tract
 - ii. The Oral Cavity
 - 1. The Lips
 - 2. The Palate
 - 3. The Tongue
 - 4. Terms Related to the Teeth
 - 5. Structures and Tissues of the Teeth
 - 6. The Periodontium
 - 7. The Salivary Gland
 - iii. The Pharynx
 - iv. The Esophagus
 - v. The Stomach
 - vi. The Small Intestine
 - 1. Parts of the Small Intestine
 - vii. The Large Intestine
 - 1. The Cecum
 - 2. The Colon
 - 3. The Rectum and Anus
 - viii. Accessory Digestive Organs
 - 1. The Liver
 - 2. The Gallbladder
 - 3. The Pancreas
 - e. Digestion
 - i. Metabolism
 - ii. Absorption
 - iii. The Role of the Mouth, Salivary Glands, and Esophagus
 - iv. The Role of the Stomach
 - v. The Role of the Small Intestine
 - vi. The Role of the Large Intestine

- f. Medical Specialties Related to the Digestive System
 - g. Pathology of the Digestive System
 - i. Tissues of the Oral Cavity
 - ii. Dental Diseases
 - iii. Esophagus
 - iv. Stomach
 - v. Eating Disorders
 - vi. Digestion and Vomiting
 - vii. Intestinal Disorders
 - viii. Anorectal Disorders
 - ix. Liver
 - x. Gallbladder
 - h. Diagnostic Procedures of the Digestive System
 - i. Endoscopic Procedures
 - i. Treatment Procedures of the Digestive System
 - i. Medications
 - ii. Oral Cavity and Esophagus
 - iii. Stomach
 - iv. Intestines
 - 1. Ostomies
 - v. Liver
 - vi. Gallbladder
- IX. Module 9 - The Urinary System
- a. Vocabulary List
 - b. Objectives
 - c. Functions of the Urinary System
 - d. Structures of the Urinary System
 - i. The Kidneys
 - 1. The Nephrons
 - ii. The Ureters
 - iii. The Urinary Bladder
 - iv. The Urethra
 - e. The Excretion of Urine
 - f. Medical Specialties Related to the Urinary System
 - g. Pathology of the Urinary System
 - i. Renal Failure
 - ii. Nephrotic Syndrome
 - 1. Nephrosis
 - iii. Kidneys
 - iv. Stones
 - v. Ureters
 - vi. Urinary Bladder
 - vii. Urethra
 - 1. Abnormal Urethral Changes
 - viii. Urination
 - 1. Incontinence
 - h. Diagnostic Procedures of the Urinary System
 - i. Treatment Procedures of the Urinary System
 - i. Medications
 - ii. Dialysis
 - 1. Hemodialysis
 - 2. Peritoneal Dialysis
 - iii. Kidneys

- iv. Ureters
- v. Urinary Bladder
- vi. Urethra
- X. Module 10 - The Nervous System
 - a. Vocabulary List
 - b. Objectives
 - c. Functions of the Nervous System
 - d. Structures of the Nervous System
 - i. The Nerves
 - ii. The Reflexes
 - iii. The Neurons
 - 1. Neuron Parts
 - iv. Synapses
 - v. Neurotransmitters
 - vi. Neuroglia
 - vii. Myelin Sheath
 - e. The Central Nervous System
 - i. The Meninges
 - 1. Dura Mater
 - 2. Arachnoid Membrane
 - 3. Pia Mater
 - ii. Cerebrospinal Fluid
 - iii. The Cerebrum
 - 1. Cerebral Hemispheres
 - 2. Lobes
 - 3. Ventricles
 - iv. The Thalamus
 - 1. The Hypothalamus
 - v. The Cerebellum
 - vi. The Brainstem
 - 1. The Midbrain
 - 2. The Pons
 - 3. The Medulla Oblongata
 - vii. The Spinal Cord
 - f. The Peripheral Nervous System
 - i. The Cranial Nerves
 - ii. The Spinal Nerves
 - g. The Autonomic Nervous System
 - h. Medical Specialties Related to the Nervous System
 - i. Pathology of the Nervous System
 - i. Head and Meninges
 - ii. Disorders of the Brain
 - iii. Brain Injuries
 - iv. Altered States of Consciousness
 - 1. Delirium and Dementia
 - v. Brain Tumors
 - vi. Strokes
 - 1. Ischemic Attacks
 - 2. Hemorrhagic Stroke
 - vii. Sleep Disorders
 - viii. Spinal Cord
 - ix. Nerves
 - x. Abnormal Sensations

- xi. Cerebral Palsy
- xii. Convulsions and Seizures
- xiii. Epilepsy
- j. Mental Health
 - i. Developmental Disorders
 - ii. Substance-Related Disorders
 - iii. Schizophrenia and Other Psychotic Disorders
 - iv. Mood Disorders
 - v. Panic Disorders
 - vi. Anxiety Disorders
 - vii. Phobias
 - viii. Somatoform Disorders
 - ix. Impulse Control Disorders
 - x. Personality Disorder
- k. Diagnostic Procedures of the Nervous System
- l. Treatment Procedures of the Nervous
 - i. Medications to Treat Mental Disorders
 - ii. Pain Control
 - iii. Sedative and Hypnotic Medications
 - iv. Anesthesia
 - v. Brain and Head
 - vi. Nerves
- XI. Module 11 - Special Senses: The Eyes and Ears
 - a. Vocabulary List
 - b. Objectives
 - c. Medical Specialties Related to the Eyes and Ears
 - d. Functions of the Eyes and Ears
 - e. Structures of the Eyes
 - i. Adnexa of the Eyes
 - 1. The Orbit
 - 2. The Eye Muscles
 - 3. The Eyelids
 - 4. The Eyebrows and Eyelashes
 - 5. The Conjunctiva
 - 6. The Lacrimal Apparatus
 - ii. The Eyeball
 - iii. The Sclera
 - iv. The Uveal Tract
 - 1. The Choroid
 - 2. The Iris, Pupil and Lens
 - 3. The Ciliary Body
 - v. The Retina
 - 1. The Macula Lutea and Fovea Centralis
 - 2. The Optic Disk and Nerve
 - vi. Segments of the Eyes
 - 1. Anterior Segment of the Eye
 - 2. Posterior Segment of the Eye
 - vii. Normal Action of the Eyes
 - 1. Visual Activity
 - f. Pathology of the Eyes
 - i. The Eyelids
 - ii. Additional Adnexa Pathology
 - iii. Sclera, Cornea and Iris

- iv. Eye
 - 1. Glaucoma
 - 2. Macular Degeneration
- v. Functional Defects
 - 1. Strabismus
- vi. Refractive Disorders
- vii. Blindness
- g. Diagnostic Procedures of the Eyes
 - i. Routine Diagnostic Procedures
 - ii. Specialized Diagnostic Procedures
- h. Treatment Procedures of the Eyes
 - i. The Orbit and Eyelids
 - ii. Conjunctiva, Cornea and Iris
 - iii. Cataract Surgery
 - iv. Laser Treatments
- i. Structures of the Ears
 - i. The Outer Ear
 - ii. The Middle Ear
 - 1. The Auditory Ossicles
 - 2. The Eustachian Tubes
 - iii. The Inner Ear
- j. Normal Action of the Ears
- k. Pathology of the Ears
 - i. Outer Ear
 - ii. Middle Ear
 - 1. Otitis Media
 - iii. Inner Ear
 - iv. Hearing Loss
- l. Diagnostic Procedures of the Ears
- m. Treatment Procedures of the Ears
 - i. Outer Ear
 - ii. Middle Ear
- XII. Module 12 - Skin: The Integumentary System
 - a. Vocabulary List
 - b. Objectives
 - c. Functions of the Integumentary System
 - i. Functions of the Skin
 - ii. Functions of Related Structures
 - d. Structures of the Integumentary System
 - i. The Skin
 - ii. The Epidermis
 - iii. The Dermis
 - 1. Tissues Within the Dermis
 - iv. The Subcutaneous Layer
 - e. Associated Structures of the Integumentary System
 - i. The Sebaceous Glands
 - ii. The Sweat Glands
 - iii. The Hair
 - iv. The Nails
 - f. Medical Specialties Related to the Integumentary System
 - g. Pathology of the Integumentary System
 - i. Sebaceous Gland Disorders
 - ii. Sweat Glands Disorders

- iii. Hair
 - 1. Excessive Hairiness
 - 2. Abnormal Hair Loss
 - iv. Nails
 - v. Pigmentation
 - vi. Surface Lesions
 - vii. Fluid-Filled Lesions
 - viii. Lesions Through the Skin
 - ix. Birthmarks
 - x. General Skin Conditions
 - xi. Bacterial Skin Infections
 - xii. Fungal Skin Infections
 - xiii. Parasitic Skin Infestations
 - xiv. Skin Growths
 - xv. Skin Cancer
 - xvi. Burns
 - h. Diagnostic Procedures of the Integumentary System
 - i. Treatment Procedures of the Integumentary System
 - i. Transdermal Medications
 - ii. Preventive Measures
 - iii. Tissue Removal
 - iv. Laser Treatment of Skin Conditions
 - v. Cosmetic Procedures
- XIII. Module 13 - The Endocrine System
- a. Vocabulary List
 - b. Objectives
 - c. Functions of the Endocrine System
 - i. Steroid Hormones
 - ii. Anabolic Steroids
 - d. Structures of the Endocrine System
 - e. Medical Specialties Related to the Endocrine System
 - f. Pathology of the Endocrine System
 - g. Diagnostic Procedures Related to the Endocrine System
 - h. The Pituitary Gland
 - i. Functions of the Pituitary Gland
 - ii. Secretions of the Pituitary Gland: Anterior Lobe
 - iii. Secretions of the Pituitary Gland: Posterior Lobe
 - iv. Pathology of the Pituitary System
 - 1. Diabetes Insipidus
 - v. Treatment Procedures of the Pituitary Gland
 - i. The Thyroid Gland
 - i. The Thyroid Gland
 - ii. Functions of the Thyroid Gland
 - iii. Secretion of the Thyroid Gland
 - iv. Pathology of the Thyroid Gland
 - 1. Insufficient Thyroid Secretion
 - 2. Excessive Thyroid Secretion
 - v. Diagnostic and Treatment Procedures Related to the Thyroid Gland
 - j. The Parathyroid Glands
 - i. Functions of the Parathyroid Glands
 - ii. Secretions of the Parathyroid Glands
 - iii. Pathology of the Parathyroid Glands
 - 1. Insufficient Parathyroid Secretion

- 2. Excessive Parathyroid Secretion
- iv. Treatment Procedure of the Parathyroid
- k. The Adrenal Glands
 - i. Functions of the Adrenal Glands
 - ii. Secretions of the Adrenal Glands
 - iii. Secretions of the Adrenal Medulla
 - iv. Pathology of the Adrenal Glands
 - 1. Insufficient Adrenal Secretions
 - 2. Excessive Adrenal Secretions
 - 3. Cushing's Syndrome
 - v. Treatment Procedures of the Adrenal Glands
- l. The Pancreatic Islets
 - i. Functions of the Pancreatic Islets
 - ii. Secretions of the Pancreatic Islets
 - iii. Pathology of the Pancreas
 - iv. Diabetes Mellitus
 - 1. Type 1 Diabetes
 - 2. Type 2 Diabetes
 - 3. Gestational Diabetes Mellitus
 - 4. Diabetes Mellitus Diagnostic Procedures
 - 5. Diabetic Emergencies
 - 6. Diabetic Complications
 - v. Treatment Procedures of the Pancreas
- m. The Thymus
 - i. Functions of the Thymus
 - ii. Secretions of the Thymus
 - iii. Pathology of the Thymus
 - iv. Treatment Procedure of the Thymus
- n. The Pineal Gland
 - i. Functions of the Pineal Gland
 - ii. Secretion of the Pineal Gland
 - iii. Pathology of the Pineal Gland
 - iv. Treatment Procedures of the Pineal Gland
- o. The Gonads
 - i. Functions of the Gonads
 - ii. Secretions of the Testicles
 - iii. Secretions of the Ovaries
 - 1. The Placenta
 - iv. Pathology of the Gonads
- XIV. Module 14 - The Reproductive System
 - a. Vocabulary List
 - b. Objectives
 - c. Functions of the Male Reproductive System
 - d. Structures of the Male Reproductive System
 - i. External Male Genitalia
 - 1. Scrotum
 - 2. Testicles
 - 3. The Penis
 - ii. Internal Male Genitalia
 - 1. Vas Deferens
 - 2. Seminal Vesicles
 - 3. The Prostate Gland
 - 4. Cowper's Glands

- 5. Urethra
 - iii. Sperm and Semen Formation
- e. Medical Specialties Related to the Male Reproductive System
- f. Pathology of the Male Reproductive System
 - i. The Penis
 - ii. Testicles and Related Structures
 - 1. Sperm Count
 - iii. Prostate Gland
- g. Diagnostic Procedures of the Male Reproductive System
- h. Treatment Procedures of the Male Reproductive System
 - i. General
 - ii. Male Sterilization
 - iii. Prostate Cancer Treatment
- i. Sexually Transmitted Diseases
- j. Functions of the Female Reproductive System
- k. Structures of the Female Reproductive System
 - i. External Female Genitalia
 - 1. Labia
 - 2. Clitoris
 - 3. Bartholin's Glands
 - 4. Perineum
 - ii. Mammary Glands
 - iii. Internal Female Genitalia
 - 1. Ovaries
 - 2. Fallopian Tubes
 - 3. Uterus
 - 4. Parts of the Uterus
 - 5. Tissues of the Uterus
 - 6. Vagina
 - iv. Menstruation
- l. Medical Specialties Related to the Female Reproductive System
- m. Pathology of the Female Reproductive System
 - i. Ovaries and Fallopian Tubes
 - ii. The Uterus
 - 1. Abnormal Uterine Positions
 - iii. The Cervix
 - iv. The Vagina
 - v. External Genitalia
 - vi. Breasts
 - vii. Menstrual Disorders
- n. Diagnostic Procedures of the Female Reproductive System
- o. Treatment Procedures of the Female Reproductive System
 - i. Medications
 - ii. Ovaries and Fallopian Tubes
 - iii. Uterus, Cervix and Vagina
 - 1. Hysterectomies
 - iv. Breasts
- p. Assisted Reproduction
- q. Pregnancy and Childbirth
 - i. Ovulation
 - ii. Fertilization
 - 1. Multiple Births
 - iii. The Chorion and Placenta

- iv. Amnion
 - 1. The Umbilical Chord
 - v. Gestation
 - vi. The Mother
 - vii. Childbirth
 - viii. Postpartum
 - 1. The Mother
 - 2. The Baby
 - ix. Pathology of Pregnancy and Childbirth
 - 1. Pregnancy
 - 2. The Rh Factor
 - 3. Childbirth
 - x. Diagnostic Procedures Related to Pregnancy
 - xi. Treatment Procedures Related to Pregnancy and Childbirth
- XV. Module 15 - Diagnostic Procedures and Pharmacology
- a. Vocabulary List
 - b. Objectives
 - c. Basic Examination Procedures
 - i. Vital Signs
 - ii. Auscultation Sounds
 - iii. Palpation and Percussion
 - iv. Additional Examination Procedures
 - d. Basic Examination Positions
 - i. Recumbent Position
 - ii. Prone Position
 - iii. Supine Position
 - iv. Dorsal Recumbent Position
 - v. Sims' Position
 - vi. Knee-Chest Position
 - vii. Lithotomy Position
 - viii. Trendelenburg Position
 - e. Laboratory Tests
 - i. Blood Tests
 - 1. Obtaining Specimens
 - 2. Complete Blood Cell Counts
 - 3. Additional Blood Tests
 - ii. Urinalysis
 - 1. Conditions Identified Through Urinalysis
 - f. Endoscopy
 - i. Endoscopic Surgery
 - g. Centesis
 - h. Imaging Techniques
 - i. Contrast Medium
 - 1. Barium (Ba)
 - 2. Intravenous Contrast Medium
 - i. Radiology
 - j. Radiographic Projections and Positioning
 - i. Positioning and Projections
 - 1. Positioning
 - 2. Projections
 - 3. Basic Radiographic Projections
 - ii. Dental Radiography
 - 1. Extraoral Radiography

- 2. Intraoral Radiography
- k. Computed Tomography
- l. Magnetic Resonance Imaging
- m. Fluoroscopy
- n. Diagnostic Ultrasound
- o. Nuclear Medicine
 - i. Nuclear Scans
 - 1. Bone Scans
 - 2. Thyroid Scans
 - ii. Single Photon Emission Computed Tomography
 - iii. Positron Emission Tomography
- p. Radioimmunoassay
- q. Pharmacology
 - i. Prescription and Over-the-Counter Drugs
 - ii. Generic and Brand Name Drugs
 - iii. Terminology Related to Pharmacology
 - iv. Routes of Drug Administration

Course Objectives by Module

Module 1 - Introduction to Medical Terminology

1. Analyze unfamiliar medical terms using your knowledge of word parts.
2. Describe the steps in locating a term in a medical dictionary.
3. Define the commonly used prefixes, word roots (combining forms), and suffixes introduced in this chapter.
4. Pronounce medical terms correctly using the "sounds like" system.
5. Recognize the importance of always spelling medical terms correctly.
6. State why caution is important when using abbreviations.
7. Recognize, define, spell, and pronounce the medical terms in this chapter.
8. Identify the roles of the three types of word parts in forming medical terms.

Module 2 - Human Body In Health and Disease

1. Define anatomy and physiology and use anatomic reference systems to identify the anatomic position, body planes, directions, and cavities.
2. Recognize, define, spell, and pronounce the terms related to the abdominal cavity and peritoneum.
3. Recognize, define, spell, and pronounce the terms related to the structure, function, pathology and procedures of cells, tissues, and glands.
4. Define the terms associated with genetics including mutation, genetic engineering, and genetic counseling.
5. Differentiate between genetic and congenital disorders and identify examples of each.
6. Identify the body systems in terms of their major structures, functions, and related word parts.
7. Recognize, define, spell, and pronounce the terms related to types of diseases and the modes of disease of transmission.

Module 3 - Skeletal System

1. Identify and describe the major functions and structures of the skeletal system.
2. Describe three types of joints.
3. Differentiate between the axial and appendicular skeletons.
4. Identify the medical specialists who treat disorders of the skeletal system.
5. Recognize, define, spell and pronounce terms related to the pathology and diagnostic and treatment procedures of the skeletal system.

Module 4 - Muscular System

1. Describe the functions and structures of the muscular system including muscle fibers, fascia, tendons, and the three types of muscles.
2. Recognize, define, spell, and pronounce the terms related to muscle movements and how muscles are named.
3. Recognize, define, pronounce, and spell the terms related to the pathology and diagnostic and treatment procedures of the muscular system.

Module 5 - Cardiovascular System

1. Describe the heart in terms of chambers, valves, blood flow, heartbeat, blood supply, and heart sounds.
2. Differentiate among the three different types of blood vessels and describe the major function of each.
3. Identify the major components of blood and the major functions of each.
4. State the difference between pulmonary and systemic circulation.
5. Recognize, define, spell, and pronounce the terms related to the pathology, diagnostic and treatment procedures of the cardiovascular system.

Module 6 - Lymphatic and Immune System

1. Describe the major functions and structures of the lymphatic and immune systems.
2. Recognize, define, spell, and pronounce the major terms related to pathology and diagnostic and treatment procedures of the lymphatic and immune systems.
3. Recognize, define, spell, and pronounce terms related to oncology.

Module 7 - Respiratory System

1. Identify and describe the major structures and functions of the respiratory system.
2. Recognize, define, spell, and pronounce terms related to the pathology and diagnostic and treatment procedures of the respiratory system.

Module 8 - Digestive System

1. Identify and describe the major structures and functions of the digestive system.
2. Describe the processes of digestion, absorption, and metabolism.
3. Recognize, define, spell, and pronounce terms related to the pathology and diagnostic and treatment procedures of the digestive system.

Module 9 - Urinary System

1. Describe the major functions of the urinary system.
2. Name and describe the structures of the urinary system.
3. Recognize, define, spell, and pronounce terms related to the pathology and diagnostic and treatment procedures of the urinary system.

Module 10 - Nervous System

1. Describe the functions and structures of the nervous system.
2. Identify the major divisions of the nervous system and describe the structures of each by location and function.
3. Identify the medical specialists who treat disorders of the nervous system.
4. Recognize, define, spell, and pronounce terms related to the pathology and diagnostic and treatment procedures of the nervous system.
5. Recognize, define, spell, and pronounce terms related to the pathology and diagnostic and treatment procedures of mental health disorders.

Module 11 - Special Senses: The Eyes and Ears

1. Describe the functions and structures of the eyes and adnexa.
2. Recognize, define, spell, and pronounce terms related to the pathology and diagnostic and treatment procedures of eye disorders.
3. Describe the functions and structures of the ears.
4. Recognize, define, spell, and pronounce terms related to the pathology and diagnostic and treatment procedures of ear disorders.

Module 12 - Skin: The Integumentary System

1. Identify and describe the functions and structures of the integumentary system.
2. Identify the medical specialists associated with the integumentary system.
3. Recognize, define, spell, and pronounce the terms used to describe the pathology and diagnostic and treatment procedures related to the skin.
4. Recognize, define, spell, and pronounce terms used to describe the pathology and diagnostic and treatment procedures related to hair, nails, and sebaceous glands.

Module 13 - Endocrine System

1. Describe the role of the hypothalamus and endocrine glands in maintaining homeostasis.
2. Name and describe the functions of the primary hormones secreted by each of the endocrine glands.
3. Recognize, define, spell, and pronounce terms relating to the pathology and diagnostic and treatment procedures of the endocrine glands.

Module 14 - Reproductive System

1. Identify and describe the major functions and structures of the male reproductive system.
2. Recognize, define, spell, and pronounce the terms related to the pathology and diagnostic and treatment procedures of the male reproductive system.
3. Name at least six sexually transmitted diseases.
4. Identify and describe the major functions and structures of the female reproductive system.
5. Recognize, define, spell, and pronounce the terms related to the pathology and diagnostic and treatment procedures of the female reproductive system.
6. Recognize, define, spell, and pronounce the terms related to the pathology and diagnostic and treatment procedures of the female during pregnancy, childbirth, and the postpartum period.

Module 15 - Diagnostic Procedures and Pharmacology

1. Describe the four vital signs recorded for most patients.
2. Recognize, define, spell, and pronounce the terms associated with basic examination procedures.
3. Identify and describe the basic examination positions.
4. Recognize, define, spell, and pronounce terms associated with frequently performed blood and urinalysis laboratory tests.
5. Recognize, define, spell, and pronounce terms associated with radiography and other imaging techniques.
6. Differentiate between projection and position and describe basic radiographic projections.
7. Recognize, define, spell, and pronounce the pharmacology terms introduced in this chapter.

Course Credit

CEUs

Students who pass the final examination with a 70% score or higher will receive a certificate of completion and 9.5 Continuing Education Units (CEUs). Students can take the test up to three times. Corexcel is an authorized CEU sponsor of the International Association of Continuing Education and Training (IACET). 1 CEU is equivalent to 10 hours of class time. Individual colleges and universities may accept CEUs. To determine an institution's policy, ask them if a course that is "accredited for CEUs by IACET (International Association for Continuing Education and Training)" can be translated into credit hours. They will often ask for objectives and a course outline, which are included in this packet. If you're sure you need college credit read the information below.

College Credit

Corexcel's online Medical Terminology course is accredited for CEUs and college credits but students must follow the process below for college credit. Read the information below carefully if you need college credit. An additional fee of \$480 applies and the registration process must be completed by calling us at 1-302-477-9730 or toll free in the U.S. 1-888-658-6641.

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Corexcel provides the online course while ITCAP handles the student registration and coordinates with the employer's education benefit program. This course has been approved for three credits. Once the ITCAP approved course and exam are successfully completed, the college credits are granted by Pima Community College.