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CORE MEDICAL TERMINOLOGY Course Syllabus

Course Number: HLTH-0342 **OHLAP Credit:** No
OCAS Code: None
Course Length: 45 Hours
Career Cluster: Health Science
Career Pathway: Therapeutic Services
Career Major(s): Health Science Tech; Advanced Acute Care Nursing Assistant, Advanced Pharmacy Technician, Advanced Unlicensed Assistant, Basic Medical Assistant, Central Sterile Processing Technician, Chiropractic Assistant, Electrocardiograph Technician, Emergency Medical Responder, Emergency Medical Technician – Basic, Fitness Specialist, Licensed Practical Nurse, Medication Administration Technician, Physical Therapy Aide, Radiologic Technologist, Student Athletic Training Aide, Surgical Nurse Assistant, Surgical Technology (Accredited Program), Vision Care Assistant, Vision Care Technician, Pharmacy Technician, PLTW Biomedical Science and Medicine

Pre-requisite(s):

Course Description: Medical Terminology is designed to develop in the students a working knowledge of the language of medicine. Students acquire word building skills by learning prefixes, suffixes, roots and abbreviations. By relating terms to body systems, students identify proper uses of words in a medical environment. Knowledge of medical terminology enhances students' ability to successfully secure employment or pursue advanced education in healthcare.

Textbooks: NorthStar Learning Online Medical Terminology

Medical Terminology for Health Professionals 7th Ed., by Ann Ehrlich, Carol L. Schroeder, Delmar Publishing

- Course Objectives:**
- A. Introduction to Medical Terminology. ¹**
 - 1. Identify the roles of the three types of word parts in forming medical terms. ¹
 - 2. Analyze unfamiliar medical terms using a knowledge of word parts. ¹
 - 3. Describe the steps in locating a term in a medical dictionary. ¹
 - 4. Define commonly used prefixes, word roots (combining forms) and suffixes. ¹
 - 5. Pronounce medical terms correctly using the “sounds like” system. ¹
 - 6. Recognize the importance of always spelling medical terms correctly. ¹
 - 7. State why caution is important when using abbreviations. ¹
 - 8. Recognize, define and pronounce the medical terms. ¹
 - 9. Apply the word building process.²
 - 10. Interpret medical abbreviations and symbols.²
 - B. The Human Body in Health and Disease¹**
 - 1. Define anatomy and physiology and use anatomic reference systems to identify the anatomic position, body planes, directions and cavities. ¹
 - 2. Recognize, define, and pronounce the terms related to the abdominal cavity and peritoneum. ¹

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3. Recognize, define, and pronounce the terms related to the structure, function, pathology and procedures of cells, tissues and glands. ¹
 4. Define the terms associated with genetics including mutation, genetic engineering and genetic counseling. ¹
 5. Differentiate between genetic and congenital disorders and identify examples of each. ¹
 6. Identify the body systems in terms of their major structures, functions and related word parts. ¹
 7. Recognize, define and pronounce the terms related to types of diseases and the modes of disease of transmission. ¹
 8. Analyze unfamiliar medical terms using your knowledge of word parts. ¹
- C. The Skeletal System¹**
1. Identify and describe the major functions and structures of the skeletal system. ¹
 2. Describe three types of joints. ¹
 3. Differentiate between the axial and appendicular skeletons. ¹
 4. Identify the medical specialists who treat disorders of the skeletal system. ¹
 5. Recognize, define and pronounce terms related to the pathology and diagnostic and treatment procedures of the skeletal system. ¹
 6. Analyze unfamiliar medical terms using your knowledge of word parts. ¹
- D. The Muscular System¹**
1. Describe the functions and structures of the muscular system including muscle fibers, fascia, tendons and the three types of muscles. ¹
 2. Recognize, define and pronounce the terms related to muscle movements and how muscles are named. ¹
 3. Recognize, define and pronounce the terms related to the pathology and diagnostic and treatment procedures of the muscular system. ¹
 4. Analyze unfamiliar medical terms using your knowledge of word parts. ¹
- E. The Cardiovascular System¹**
1. Describe the heart in terms of chambers, valves, blood flow, heartbeat, blood supply and heart sounds ¹
 2. Differentiate among the three different types of blood vessels and describe the major function of each. ¹
 3. Identify the major components of blood and the major functions of each. ¹
 4. State the difference between pulmonary and systemic circulation. ¹
 5. Recognize, define and pronounce the terms related to the pathology. ¹ diagnostic and treatment procedures of the cardiovascular system. ¹
 6. Analyze unfamiliar medical terms using your knowledge of word parts. ¹
- F. The Lymphatic and Immune Systems¹**
1. Describe the major functions and structures of the lymphatic and immune systems. ¹
 2. Recognize, define and pronounce the major terms related to pathology and diagnostic and treatment procedures of the lymphatic and immune systems. ¹
 3. Recognize, define and pronounce terms related to oncology. ¹

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4. Analyze unfamiliar medical terms using your knowledge of word parts.¹
- G. The Respiratory System¹**
 1. Identify and describe the major structures and functions of the respiratory systems.¹
 2. Recognize, define and pronounce terms related to the pathology and diagnostic and treatment procedures of the respiratory system.¹
 3. Analyze unfamiliar medical terms using your knowledge of word parts.¹
- H. The Digestive System¹**
 1. Identify and describe the major structures and functions of the digestive system.¹
 2. Describe the processes of digestion, absorption and metabolism.¹
 3. Recognize, define and pronounce terms related to the pathology and diagnostic and treatment procedures of the digestive system.¹
 4. Analyze unfamiliar medical terms using your knowledge of word parts.¹
- I. The Urinary System¹**
 1. Describe the major functions of the urinary system.¹
 2. Name and describe the structures of the urinary system.¹
 3. Recognize, define and pronounce terms related to the pathology and diagnostic and treatment procedures of the urinary system.¹
 4. Analyze unfamiliar medical terms using your knowledge of word parts.¹
- J. The Nervous System¹**
 1. Describe the functions and structures of the nervous system.¹
 2. Identify the major divisions of the nervous system and describe the structures of each by location and function.¹
 3. Identify the medical specialists who treat disorders of the nervous system.¹
 4. Recognize, define and pronounce terms related to the pathology and diagnostic and treatment procedures of the nervous system.¹
 5. Recognize, define and pronounce terms related to the pathology and diagnostic and treatment procedures of mental health disorders.¹
 6. Analyze unfamiliar medical terms using your knowledge of word parts.¹
- K. Special Senses: The Eyes and Ears¹**
 1. Describe the functions and structures of the eyes and adnexa.¹
 2. Recognize, define and pronounce terms related to the pathology and diagnostic and treatment procedures of eye disorders.¹
 3. Describe the functions and structures of the ears.¹
 4. Recognize, define, spell and pronounce terms related to the pathology and diagnostic and treatment procedures of ear disorders.¹
 5. Analyze unfamiliar medical terms using your knowledge of word parts.¹
- L. Skin: The Integumentary System¹**
 1. Identify and describe the functions and structures of the integumentary system.¹
 2. Identify the medical specialists associated with the integumentary system.¹
 3. Recognize, define and pronounce the terms used to describe the pathology and diagnostic and treatment procedures related to the skin.¹

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4. Recognize, define and pronounce terms used to describe the pathology and diagnostic and treatment procedures related to hair, nails and sebaceous glands. ¹
 5. Analyze unfamiliar medical terms using your knowledge of word parts.¹
- M. The Endocrine System¹**
1. Describe the role of the hypothalamus and endocrine glands in maintaining homeostasis. ¹
 2. Name and describe the functions of the primary hormones secreted by each of the endocrine glands. ¹
 3. Recognize, define and pronounce terms relating to the pathology and diagnostic and treatment procedures of the endocrine glands. ¹
 4. Analyze unfamiliar medical terms using your knowledge of word parts.¹
- N. The Reproductive Systems¹**
1. Identify and describe the major functions and structures of the male reproductive system. ¹
 2. Recognize, define and pronounce the terms related to the pathology and diagnostic and treatment procedures of the male reproductive system. ¹
 3. Name sexually transmitted diseases. ¹
 4. Identify and describe the major functions and structures of the female reproductive system. ¹
 5. Recognize, define and pronounce the terms related to the pathology and diagnostic and treatment procedures of the female reproductive system. ¹
 6. Recognize, define and pronounce the terms related to the pathology and diagnostic and treatment procedures of the female during pregnancy, childbirth and the postpartum period. ¹
 7. Analyze unfamiliar medical terms using your knowledge of word parts.¹
- O. Diagnostic Procedures and Pharmacology¹**
1. Describe the four vital signs recorded for most patients. ¹
 2. Recognize, define and pronounce the terms associated with basic examination procedures. ¹
 3. Identify and describe the basic examination positions. ¹
 4. Recognize, define and pronounce terms associated with frequently performed blood and urinalysis laboratory tests. ¹
 5. Recognize, define and pronounce terms associated with radiography and other techniques. ¹
 6. Differentiate between projection and position and describe basic radiographic projections. ¹
 7. Recognize, define and pronounce pharmacology terms. ¹
 8. Analyze unfamiliar medical terms using your knowledge of word parts.¹
 9. Critique orders, requests and diagnostic reports.²
 10. Define radiation science terms.²
 11. Translate medical terms, abbreviations and symbols into common language from a medical report. ²

¹ ODCTE Objective

² Objectives are required for Radiologic Technologist students and are taken from the ASRT (American Society of Radiologic Technologists) national curriculum.

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All unmarked objectives are TTC instructor developed.

Teaching Methods: The class will primarily be taught by the lecture and demonstration method and supported by various media materials to address various learning styles. There will be question and answer sessions over material covered in lecture and media presentations. Supervised lab time is provided for students to complete required projects.

OR

The class will primarily be taught online; it will be self-paced and facilitated by the instructor, with written lecture materials available for printing, and active student participation. There will be various media for viewing and question and answer sessions over material covered via the Discussion Board, chat sessions, and email. Lab practice time is available by appointment for students to become proficient in skills required for clinical rotation.

Grading Procedures:

1. Students are graded on theory and lab practice and performance. Each course must be passed with seventy (70%) percent or better. Licensed Practical Nurse (LPN) require eighty (80%) percent or better due to accreditation or certification requirements
2. Grading scale: A=90-100%, B=80-89%, C=70-79%, D=60-69%, F=50-59%.
3. Students wanting to take advantage of college credit/alliance agreements must maintain an 80% in their coursework.
4. Career Major grades established during coursework are a major criteria in successfully obtaining certification.

Description of Classroom, Laboratories, and Equipment: Tulsa Technology Center campuses are owned and operated by Tulsa Technology Center School District No. 18. All programs provide students the opportunity to work with professionally certified instructors in modern, well-equipped facilities.

Available Certifications/ College Credit The student may be eligible to take state, national or industry exam after completion of the program. Tulsa Tech students may be able to earn college credit based on their knowledge gained at Tech. The process of earning credit through Prior Learning Assessment (PLA) will be determined after completion with Tech and based on certification, credential or knowledge of the subject. See program counselor for additional information.

College Credit Eligibility: The student must maintain a grade point average of 2.0 or better. The following career major(s) may require a 3.0 GPA or better due to the Articulation Agreements and/or accreditation/certification requirements: Certified Dental Assistant, Emergency Medical Technician (EMT), Licensed Practical Nurse (LPN), Surgical First Assistant (SFA), Surgical Technologist, Surgical Nurse Assistant, Central Sterile Processing Technician.