

Medical Terminology



Industry Sector: [Health Science and Medical Technology](#)

Pathway: Patient Care

This course covers basic medical terminology and the vocabulary of medical specialties. Special emphasis is on the use of prefixes and suffixes, and non-technical explanations of medical terms and descriptions of anatomy, physiology, and pathology. Students learn to utilize medical terminology as it applies to the structure of the human body, common laboratory tests, radiological and operative procedures, as well as basic pharmacology. Medical Terminology is designed for students seeking a career in the healthcare field.

Last Revised: August 14, 2017

Program Information	CTE Certification Elements
<p>Industries / Pathways: Health Science and Medical Technology Industry: Patient Care Pathway</p> <p>Grade Levels: 9, 10</p> <p>CSU/UC Approval: No</p> <p>Community College Course: No</p> <p>Pathway Sequence(s) That Include This Course: Patient Care Pathway Course Sequence: Introduction to Health and Human Service Careers or Health Professions and Organizations First Aid, Emergency Response and CPR Career Explorations Anatomy and Physiology</p>	<p>Course Level: Concentrator</p> <p>CALPADS Pathway: HLT-198</p> <p>CALPADS Course Title: Medical Terminology</p> <p>State Course ID: 7921</p> <p>Total Hours: 45</p> <p>Course Length: 1 Semester</p> <p>Local Course Number: PC5005</p> <p>Board Approval: Pending Board Action on 12/7/17</p> <p>Labor Market Demand: High</p> <p>Course Type: Career-Technical Preparation</p>

Introduction to Public Health or Health and Social Justice or <i>Medical Terminology</i> Hospital/Clinical Internship (10 th , 11 th , 12 th) Realities of Nutrition or Substance Abuse and Public Health CPR Recertification Advanced Pre-nursing Seminar or Advanced Internship	
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Competencies / Outcomes

Students will:

1. Demonstrate a willingness to learn.
2. Participate actively as a member of a team.
3. Communicate professionally with others through verbal, non-verbal and/or written communication.
4. Demonstrate the ability to seek, apply and/or interview for employment.

CTE Pathway Standards (12)

1. CTE.HSMT.KPAS.1.0 [Academics](#)
2. CTE.HSMT.B.2.1 [Know basic human body structure and function in relationship to specific care between prevention, diagnosis, pathology, and treatment.](#)
3. CTE.HSMT.B.2.2 [Describe basic stages of growth and development.](#)
4. CTE.HSMT.B.2.3 [Recognize common disease and disorders of the human body.](#)
5. CTE.HSMT.B.2.4 [Compare normal function of the human body to the diagnosis and treatment of disease and disorders.](#)
6. CTE.HSMT.B.5.1 [Use medical terminology in patient care appropriate to communicate information and observations.](#)
7. CTE.HSMT.B.5.2 [Accurately spell and define occupationally specific terms related to health care.](#)
8. CTE.HSMT.B.5.3 [Use roots, prefixes, and suffixes to communicate information.](#)
9. CTE.HSMT.B.5.4 [Use medical abbreviations to communicate information.](#)
10. CTE.HSMT.B.5.5 [Know the basic structure of medical terms.](#)
11. CTE.HSMT.B.5.6 [Demonstrate the correct pronunciation of medical terms.](#)
12. CTE.HSMT.B.5.7 [Practice word building medical terminology skills.](#)

Common Core Standards for Literacy in History/Social Studies, Science and Technical Subjects

Reading

1. RST.9-10.3 (9th and 10th) [Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions defined in the text.](#)

2. RST.11-12.3 (11th and 12th) [Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.](#)
3. RST.9-10.9 (9th-10th) [Compare and contrast findings presented in a text to those from other sources \(including their own experiments\), noting when the findings support or contradict previous explanations or accounts.](#)
4. RST.11-12.9 (11th and 12th) [Synthesize information from a range of sources \(e.g., texts, experiments, simulations\) into a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible.](#)

Writing

1. WHST.9-10.4, WHST.11-12.4 (9-10 & 11-12) [Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.](#)

Units

Unit lesson plans for instructors can be found on CTE Online.

Unit 1: Orientation

Description

In this unit, students will be introduced to the medical terminology course. Classroom safety and emergency procedures will be a major focus of this unit. Additionally, classroom expectations will be covered by reviewing the syllabus. Students will receive appropriate training and will have a variety of discussions relating to employment and education needed to pursue a career related to medical terminology.

Key Topics/Activities

- Discuss the course syllabus and major objectives.
- Explain applicable classroom management procedures and any operational guidelines.
- Review instructor/student expectations.
- Explain enrollment and attendance requirements and procedures.
- Review grading and student evaluation procedures.
- Discuss the community classroom aspect of the program if applicable.
- Discuss the "next steps" in the course sequence related to additional education, training, and employment.
- Review classroom safety, emergency and disaster procedures.

Key concepts and skills will be assessed through written examination, including multiple choice, short answer, and short constructed response.

Unit 2: Personal and Occupational Safety

Description

The major focus of this unit is on personal and occupational safety. Students will know how to correctly identify and report potential safety hazards. In this unit, students will become familiar with CAL-OSHA Standards and know the importance of having these standards in place. Additionally, students will learn the preventative measures used in order to maintain a safe working environment. Included will be discussion regarding the impact of personal safety and good housekeeping; and that role that it plays in preventing work hazards.

Key Topics/Activities

- A. Demonstrate procedures to be followed in the case of emergencies.
- B. Discuss ways to report a potential safety hazard to a supervisor.
- C. Identify and discuss cyber ethics, cyber safety, and cybersecurity.
- D. Recognize the importance of using proper body mechanics for lifting and moving in the work setting.
- E. Apply personal safety practices to and from the job.
- F. Recognize good housekeeping as a safety issue.
- G. Identify safety hazards commonly found in a variety of medical settings including Standard/Universal Precautions and hazardous waste.
- H. Describe the procedures for reporting a work-related injury.
- I. Explain the importance of CAL-OSHA.
- J. Define and discuss ergonomics in relation to the working environment.
- K. Discuss the electrical hazards of working with electronic equipment.
- L. Recognize the effects of substance abuse in the workplace.

Key concepts and skills will be assessed through written examination, including multiple choice, short answer, and short constructed response.

Unit 3: Introduction to Medical Terminology

Description

This unit will focus on the use of medical terminology. Students will be introduced to the prefix and suffix system used to identify medical terms and phrases. Students will be able to accurately determine the meaning of medical phrases by utilizing the word building system. Lastly, students will be able to describe the implications of inaccurately identify medical terms and phrases.

Key Topics/Activities

- A. Demonstrate the ability to use medical terms in their proper context.
- B. Identify the basic word building system used in medical terminology.
- C. Utilize word roots, combining forms, prefixes, suffixes, to analyze unfamiliar medical terms and phrases.
- D. Identify and demonstrate pronunciation of medical terms.
- E. Describe the financial implications of errors in the use of medical terminology.

Key concepts and skills will be assessed through written examination, including multiple choice, short answer, and short constructed response.

Unit 4: Terminology for Basic Human Anatomy

Description

This unit is designed for students to receive a comprehensive overview of the human body systems. Students will be able to identify the following systems: integumentary, respiratory, digestive, urinary, cardiovascular, musculo-skeletal, reproductive, endocrine, sensory, and nervous system. In this unit, students will also summarize the major roles that each of the systems listed perform. Defining medical terms and phrases that relate the to listed body systems is an important aspect to this unit.

Key Topics/Activities

- Analyze, define, spell, and pronounce medical terms relating to the major body systems and structures including: integumentary, respiratory, digestive, urinary, cardiovascular, musculo-skeletal, reproductive, endocrine, sensory, and nervous systems.
- Identify anatomical descriptors and fundamental human body structure.
- List the major body systems.
- List and identify basic word elements related to anatomy and physiology.

Key concepts and skills will be assessed through written examination, including multiple choice, short answer, and short constructed response.

Unit 5: Terminology for Clinical and Diagnostic Procedures

Unit Description

The main focus of this unit is on making connections between medical terminology and diagnostic procedures that are used in related careers. Students will be introduced to clinical reports and will be asked to correctly identify the meaning of a variety of medical terms and phrases. Students will be able to effectively read, write, and pronounce the medical terms that are used in reports. Another important aspect of this unit is recognizing medical technology that is used in the field.

Key Topics/Activities

- A. Analyze, define, spell, and pronounce medical terms relating to diagnostic procedures associated with radiology, computed tomography, magnetic resonance imaging, and ultrasonography.
- B. Demonstrate understanding of medical terms used in various diagnostic and clinical reports and documents.
- C. Analyze, define, spell, and pronounce words related to clinical procedures associated with nuclear medicine technology, surgical procedures, and laboratory tests.
- D. Describe the impact of technology on the use of terminology within the medical field.

Key concepts and skills will be assessed through written examination, including multiple choice, short answer, and short constructed response.