

Career & Technical Education  
Curriculum Alignment with  
Common Core ELA & Math Standards

# Medical Terminology 1

**HEALTH SCIENCE CLUSTER  
CAREER MAJORS**

<b>Allied Health</b>
Recommended Courses
Principles of Health Science Medical Math Medical Terminology Medical Science* or Body Structure and Function Health and Wellness** or Holistic Health Emergency Procedures <b>Allied Health Core Skills</b> Advanced HCS/Practicum Pharmacology Medical Microbiology
Elective Courses
Food Science Child/Human Development Nutritional Science Psychology/Sociology Child Care Chemistry/Physics Anatomy & Physiology Leadership Dynamics Other Courses directly related to Career Major

**Note:**

- **Three credits must come from recommended courses.**
- **\*Meets Life Science requirement for high school graduation.**
- **\*\*Meets Health requirement for high school graduation.**

## MEDICAL TERMINOLOGY

**Course Description:** A course designed to develop a working knowledge of language in all health science major areas. Students acquire word-building skills by learning prefixes, suffixes, roots and abbreviations. Students will learn correct pronunciation, spelling and application rules. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care.

### Content/Process

#### Students will

1. arrange word roots, prefixes, and suffixes to form medical terms.
2. categorize word parts by body systems.
3. interpret terms relating to all major body systems.
4. correlate origin of terms to other languages.
5. identify medical acronyms, homonyms and eponyms.
6. recognize and define plural forms of medical terms.
7. access resources to enhance understanding of medical terms.
8. identify and use common medical abbreviations.
9. relate medical terms to normal anatomy, growth and development, diagnostic procedures, pharmacology, surgery, mental health and medical specialties.
10. compare the use of medical terms in the media and real-life situations.
11. pronounce medical term
12. demonstrate employability and social skills relevant to health careers.
13. use medical terminology within a scope of practice in order to interpret, transcribe and communicate information, data and observations.
14. recognize and define suffixes that denote noun, adjective, singular, and plural forms of medical words.
15. categorize major prefixes in the following groups: position, number, measurement, negation, direction, and other prefixes
16. demonstrate the employability and social skills relevant to health careers.
17. utilize activities of Health Occupations Students of America (HOSA) as an integral component of course content, skills application, and leadership development.
18. use information technology applications as appropriate to health care specialties.
19. integrate literacy and numeracy concepts and processes across all curricular units

### Connections

- Kentucky Occupational Skill Standards
- National Health Care Skills Standards

Course Title **170131 - Medical Terminology I**

Grade Levels 9-11

Credit Value 0.5

Description An overview designed of the basic use of medical word parts and techniques for word building will be provided. Emphasis will be on basic anatomical structures and functions; incorporating proper spelling, grammar, and useage.

Prerequisites Optional - Emergency Procedures, Principles of Health Science

Unit Title Introduction to medical terms - word parts, word building

### **Technical Content**

MT01 - Arrange word roots, prefixes, and suffixes to form medical terms.

MT04 - Correlate origin of terms to other languages.

MT05 - Identify medicdal acronyms, homonyms, and eponyms.

MT06 - Recognize and define plural forms of medical terms.

MT07 - Access resources to enhance understanding of medical terms.

MT11 - Pronounce medical terms.

MT14 - Recognize and define suffixes that denote noun, adjective, singular, and plural forms of medical words.

MT15 - Categorize major prefixes in the following groups: position, number, measurement, negation, direction and other prefixes

### **National Standards**

2.11 Interpret verbal and nonverbal communication.

2.15 Apply speaking and active listening skills.

2.21 Use roots, prefixes and suffixes to communicate information.

2.22 Use medical abbreviations to communicate information.

2.31 Recognize elements of written and electronic communication (spelling, grammar, and formatting).

11.11 Utilize current computer hardware and software.

### **KY Core Academic Standards (Big Idea)**

Communication/Technology - Vocational Studies

Special communication and technology skills are needed for success in schooling and in the workplace. Students will be able to express information and ideas using a variety of technologies in various ways.

### **English/Language Arts Common Core Standards**

CC.9-10.R.L.2 Key Ideas and Details: Determine a theme or central idea of a text and analyze in detail its development over the course of the text, including how it emerges and is shaped and refined by specific details; provide an objective summary of the text.

CC.9-10.L.4.d Vocabulary Acquisition and Use: Verify the preliminary determination of the meaning of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).

CC.9-10.L.5.b Vocabulary Acquisition and Use: Analyze nuances in the meaning of words with similar denotations.

### **Technical Literacy Standards**

Reading / 9-10 / #1 – Cite specific textual evidence to support analysis of science and technical texts, attending to the precise details of explanations or descriptions.

Reading / 9-10 / #2 – Determine the central ideas or conclusions of a text; trace the text’s explanation or depiction of a complex process, phenomenon, or concept; provide an accurate summary of the text.

Reading / 9-10 / #4 – Determine the meaning of symbols, key terms, and other domain-specific words/phrases as they are used in specific scientific and technical context.

Reading / 9-10 / #5 – Analyze the structure of the relationships among concepts in a text, including relationships among key terms.

Reading / 9-10 / #7 – Translate quantitative or technical information expressed in words in a text into visual form (e.g. chart / table) and translate information expressed visually or mathematically (e.g. in an equation) into words.

Writing / 9-10 / #5 – Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.

Writing / 9-10 / #6 – Use technology, including the Internet, to produce, publish, and update individual or shared writing products, taking advantage of technology’s capacity to link to other information and to display information flexibly and dynamically.

Writing / 9-10 / #10 – Write routinely over extended time frames and shorter time frames for a range of discipline-specific tasks, purposes, and audiences.

## **Mathematics Common Core Standards**

CC.9-12.S.IC.6 Evaluate reports based on data.\*

## **KOSSA Standards**

AA001 Adjust communication to other's ability to understand

AA005 Interpret verbal and non-verbal behaviors to augment communication and within scope of practice

AB001 Report relevant information in order of occurrence

AC002 Interpret, transcribe, and communicate information, data, and observations using medical terminology within scope of practice

AD002 Use communication technology (Fax, E-mail, Internet) to access and distribute data and other information

## **Learning Targets**

## **Sample Learner Activities - Contact Health Science Consultant for Resources**

Healthcare professionals will know the various methods of giving and obtaining information.	Communication Skills- Supplemental Resources, Foundation Standard 2 I. Standard 2.1, pages 37-40
Healthcare professionals will communicate effectively, both orally and in writing.	Communications - Supplemental Resources, Foundation Standard 2 I. Written Communication Skills, 2.3
Healthcare professionals will use information technology applications required within all career specialties.	Information Technology Applications- Supplemental Resources, Foundation Standard 11 11.22 - Recognize technology applications in healthcare.
Healthcare professionals will demonstrate use as appropriate to healthcare applications.	Dean Vaughn Learning System

Course Title	<b>170131 - Medical Terminology I</b>	Grade Levels	9-11	Credit Value	0.5
Description	An overview designed of the basic use of medical word parts and techniques for word building will be provided. Emphasis will be on basic anatomical structures and functions; incorporating proper spelling, grammar, and useage.				
Prerequisites	Optional - Emergency Procedures, Principles of Health Science				
Unit Title	<u><b>Directional terms, body planes, cavitites, regions and quadrants</b></u>				

### **Technical Content**

MT02 - Categorize word parts by body systems.

MT03 - Interpret terms relating to all major body systems.

MT07 - Access resources to enhance understanding of medical terms.

MT 08 - Identify and use common medical abbreviations.

MT 09 - Relate medical terms to normal anatomy, growth and development, diagnostic procedures, pharmacology, surgery, mental health, and medical specialities.

MT10 - Compare the use of medical terms in the media and real-life situations.

MT11 - Pronounce medical terms.

MT13 - Use medical terminology within a scope of practice in order to interpret, transcribe and communicate information, data and observations.

### **National Standards**

1.12 Recognize body planes, directional terms, quadrants, and cavities.

2.11 Interpret verbal and nonverbal communication.

2.15 Apply speaking and active listening skills.

2.22 Use medical abbreviations to communicate information.

2.31 Recognize elements of written and electronic communication (spelling, grammar, and formatting).

### **KY Core Academic Standards (Big Idea)**

Communication/Technology - Vocational Studies

Special communication and technology skills are needed for success in schooling and in the workplace. Students will be able to express information and ideas using a variety of technologies in various ways.

### **English/Language Arts Common Core Standards**

CC.9-10.L.2 Conventions of Standard English: Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

CC.11-12.W.10 Range of Writing: Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences.

### **Technical Literacy Standards**

Reading / 9-10 / #1 – Cite specific textual evidence to support analysis of science and technical texts, attending to the precise details of explanations or descriptions.

Reading / 9-10 / #2 – Determine the central ideas or conclusions of a text; trace the text’s explanation or depiction of a complex process, phenomenon, or concept; provide an accurate summary of the text.

Reading / 9-10 / #4 – Determine the meaning of symbols, key terms, and other domain-specific words/phrases as they are used in specific scientific and technical context.

Reading / 9-10 / #5 – Analyze the structure of the relationships among concepts in a text, including relationships among key terms.

Reading / 9-10 / #7 – Translate quantitative or technical information expressed in words in a text into visual form (e.g. chart / table) and translate information expressed visually or mathematically (e.g. in an equation) into words.

Writing / 9-10 / #5 – Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.

Writing / 9-10 / #6 – Use technology, including the Internet, to produce, publish, and update individual or shared writing products, taking advantage of technology’s capacity to link to other information and to display information flexibly and dynamically.

Writing / 9-10 / #10 – Write routinely over extended time frames and shorter time frames for a range of discipline-specific tasks, purposes, and audiences.

### **Mathematics Common Core Standards**

CC.9-12.S.IC.6 Evaluate reports based on data.\*

## **KOSSA Standards**

OA003 Explain body planes, directional terms, quadrants, and cavities

AA001 Adjust communication to other's ability to understand

AA005 Interpret verbal and non-verbal behaviors to augment communication and within scope of practice

OB002 Analyze methods to control the spread of pathogenic microorganisms

AD002 Use communication technology (Fax, E-mail, Internet) to access and distribute data and other information

## **Learning Targets**

Healthcare professionals will know the academic subject matter required for proficiency within their area.

## **Sample Learner Activities - Contact Health Science Consultant for Resources**

Academic Foundation- Supplemental Resources, Foundation Standard 1

I. 1.1 Human Structure and Function (1.11 and 1.12)

II. Dean Vaughn Learning System

Course Title	<b>170131 - Medical Terminology I</b>	Grade Levels	9-11	Credit Value	0.5
Description	An overview designed of the basic use of medical word parts and techniques for word building will be provided. Emphasis will be on basic anatomical structures and functions; incorporating proper spelling, grammar, and useage.				
Prerequisites	Optional - Emergency Procedures, Principles of Health Science				
Unit Title	<u><b>Human structure and function of each individual body system:</b></u>				

### **Technical Content**

MT02 - Categorize word parts by body systems.

MT03 - interpret terms relating to all major body systems.

MT07 - Access resources to enhance understanding of medical terms.

MT08 - Identify and use common medical abbreviations.

MT09 - Relate medical terms to normal anatomy, growth and development, diagnostic procedures, pharmacology, surgery, mental health and medical specialities.

MT10 - Compare the use of medical terms in the media and real-life situations.

MT11 - Pronounce medical terms.

MT13 - Use medical terminology within a scope of practice in order to interpret, transcribe and communicate information, data and observations.

MT18 - Use information technology applications as appropriate to health care specialities.

MT19 - Integrate literacy and numeracy concepts and processes across all curricular areas.

### **National Standards**

1.11 Classify the basic structural and functional organization of the human body (tissue, organ, and system).

1.13 Analyze the basic structure and function of the human body.

2.11 Interpret verbal and nonverbal communication.

2.13 Report subjective and objective information.

2.15 Apply speaking and active listening skills.

2.21 Use roots, prefixes and suffixes to communicate information.

2.22 Use medical abbreviations to communicate information.

2.31 Recognize elements of written and electronic communication (spelling, grammar, and formatting).

8.11 Understand roles and responsibilities of team members.

8.21 Recognize methods for building positive team relationships.

11.11 Utilize current computer hardware and software.

### **KY Core Academic Standards (Big Idea)**

Communication/Technology - Vocational Studies

Special communication and technology skills are needed for success in schooling and in the workplace. Students will be able to express information and ideas using a variety of technologies in various ways.

### **English/Language Arts Common Core Standards**

CC.9-10.L.2 Conventions of Standard English: Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

CC.9-10.L.4.d Vocabulary Acquisition and Use: Verify the preliminary determination of the meaning of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).

CC.9-10.L.5 Vocabulary Acquisition and Use: Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.

CC.9-10.R.L.2 Key Ideas and Details: Determine a theme or central idea of a text and analyze in detail its development over the course of the text, including how it emerges and is shaped and refined by specific details; provide an objective summary of the text.

CC.9-10.L.5.b Vocabulary Acquisition and Use: Analyze nuances in the meaning of words with similar denotations.

CC.11-12.L.2 Conventions of Standard English: Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

CC.11-12.L.5.b Vocabulary Acquisition and Use: Analyze nuances in the meaning of words with similar denotations.

## **Technical Literacy Standards**

Reading / 9-10 / #1 – Cite specific textual evidence to support analysis of science and technical texts, attending to the precise details of explanations or descriptions.

Reading / 9-10 / #2 – Determine the central ideas or conclusions of a text; trace the text's explanation or depiction of a complex process, phenomenon, or concept; provide an accurate summary of the text.

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Reading / 9-10 / #5 – Analyze the structure of the relationships among concepts in a text, including relationships among key terms.

Reading / 9-10 / #7 – Translate quantitative or technical information expressed in words in a text into visual form (e.g. chart / table) and translate information expressed visually or mathematically (e.g. in an equation) into words.

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Writing / 9-10 / #10 – Write routinely over extended time frames and shorter time frames for a range of discipline-specific tasks, purposes, and audiences.

## **Mathematics Common Core Standards**

CC.9-12.S.IC.6 Evaluate reports based on data.\*

## **KOSSA Standards**

OA001 Describe the basic structures and functions of cells, tissues, organs, and systems as they relate to homeostasis

OA002 Compare relationships among cells, tissues, organs, and systems

AA001 Adjust communication to other's ability to understand

AA003 Apply active listening skills using reflection, restatement, and clarification techniques

AA005 Interpret verbal and non-verbal behaviors to augment communication and within scope of practice

AB001 Report relevant information in order of occurrence

AC002 Interpret, transcribe, and communicate information, data, and observations using medical terminology within scope of practice

OD002 Predict where and how factors such as: cost, managed care, technology, an aging population, access to care, alternative therapies, and lifestyle/behavior changes may affect various health care delivery

EO001 Understand and apply the team concept in providing quality patient care

EP001 Communicate verbally and non-verbally with team colleagues to assure the best result for the client

AD002 Use communication technology (Fax, E-mail, Internet) to access and distribute data and other information

## **Learning Targets**

Healthcare professionals will know the academic subject matter required for proficiency within their area.

## **Sample Learner Activities - Contact Health Science Consultant for Resources**

Academic Foundation - Supplemental Resources, Foundation Standard 1  
I. 1.13 - Analyze the basic structure and function of the human body.