

Career & Technical Education

Medical Terminology 2

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 **170132 - Medical Terminology II**

Grade Levels 9-11

Credit Value 0.5

Description A detailed study of anatomical physiological, and pathological terminology and emphasis on word structure and definition of word roots, suffixes, and prefixes. Various medical specialities, diagnostic procedures and treatment will also be incorporated. Teamwork skills will be enhanced as well as pronunciation, spelling and grammar usage.

Prerequisites Medical Terminology I, optional - Principles of Health Science

Unit Title **Basic structural and functional organization of the human body (tissue, organ, systems).**

Technical Content

MT 07 Access Resources to enhance understanding of medical terms.

MT 10 Compare the use of medical terms in the media and real-life situations.

MT 11 Pronounce medical terms.

MT 17 Utilize activities of HOSA - Future Health Professionals as an integral component of course content, skills application, and leadership development.

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.

KY 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 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.c Vocabulary Acquisition and Use: Consult general and specialized reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation of a word or determine or clarify its precise meaning, its part of speech, or its etymology.

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.SL.1.c Comprehension and Collaboration: Propel conversations by posing and responding to questions that probe reasoning and evidence; ensure a hearing for a full range of positions on a topic or issue; clarify, verify, or challenge ideas and conclusions; and promote divergent and creative perspectives.

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 Standards

CC.9-12.S.MD.7 (+) Analyze decisions and strategies using probability concepts (e.g., product testing, medical testing, pulling a hockey goalie at the end of a game).*

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

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

Learning Targets

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

Healthcare professionals will use this knowledge as needed in their role.

Sample Learner Activities - Contact Health Science Consultant for Resources

Academic Foundation- Supplemental Resources, Foundation Standard 1

I. 1.13, pages 19-31

Academic Foundations - Supplemental Resources, Foundation Standard 1

I. 1.22, page 45

II. 1.23, pages 49-51

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Description	A detailed study of anatomical physiological, and pathological terminology and emphasis on word structure and definition of word roots, suffixes, and prefixes. Various medical specialities, diagnostic procedures and treatment will also be incorporated. Teamwork skills will be enhanced as well as pronunciation, spelling and grammar usage.				
Prerequisites	Medical Terminology I, optional - Principles of Health Science				

Unit Title **Medical specialities; diseases and disorders including diagnostic procedures and**

Technical Content

- Classify the basic structural and functional organization of the human body (tissue, organ, and system).
- Analyze the basic structure and function of the human body.
- Describe common diseases and disorders of each body system (prevention, pathology, diagnosis, and treatment).
- Recognize emerging diseases and disorders.
- Investigate biomedical therapies as they relate to the prevention, pathology, and treatment of disease.
- Interpret verbal and nonverbal communication.
- Report subjective and objective information.
- Apply speaking and active listening skills.
- Use roots, prefixes, and suffixes to communicate information.
- Use medical abbreviations to communicate information.
- Recognize elements of written and electronic communication (spelling, grammar, and formatting).
- Explain the impact of emerging issues such as technology, epidemiology, bioethics, and socioeconomics on healthcare delivery systems.
- Compare careers within the health science career pathways (diagnostic services, therapeutic services, health informatics, support services, or biotechnology research and development).
- Apply procedures for accurate documentation and record keeping.
- Understand roles and responsibilities of team members.
- Recognize methods for building positive team relationships.
- Apply behaviors that promote health and wellness.
- Describe strategies for the prevention of diseases including health screenings and examinations.
- Utilize current computer hardware and software.
- Communicate using technology to access and distribute data and other information.

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.
- 1.21 Describe common diseases and disorders of each body system (prevention, pathology, diagnosis, and treatment).
- 1.22 Recognize emerging diseases and disorders.
- 1.23 Investigate biomedical therapies as they relate to the prevention, pathology, and treatment of disease.
- 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 communication information.
- 2.22 Use medical abbreviations to communication information.
- 2.31 Recognize elements of written and electronic communication (spelling, grammar, and formatting).
- 3.14 Explain the impact of emerging issues such as technology, epidemiology, bioethics, and socioeconomics on healthcare delivery systems.
- 4.32 Compare careers within the health science career pathways (diagonostic services, therapeutic services, health informatics, support services, or biotechnology reseqarch and development).
- 5.12 Apply procedures for accurate documentation and record keeping.

KY Academic Standards (Big Idea)

Communication/Technology - Vocational Studies

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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.I.4 Craft and Structure: Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings; analyze the cumulative impact of specific word choices on meaning and tone (e.g., how the language of a court opinion differs from that of a newspaper).

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.SL.2 Comprehension and Collaboration: Integrate multiple sources of information presented in diverse formats and media (e.g., visually, quantitatively, orally) in order to make informed decisions and solve problems, evaluating the credibility and accuracy of each source and noting any discrepancies among the data.

CC.11-12.W.6 Production and Distribution of Writing: Use technology, including the Internet, to produce, publish, and update individual or shared writing products in response to ongoing feedback, including new arguments or information.

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.

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Learning Targets

Sample Learner Activities - Contact Health Science Consultant for Resources

Healthcare professionals will know the academic subject matter required for proficiency within their area. They will use this knowledge as needed in their role.

Healthcare professionals will know the various methods of giving and obtaining information. They will communicate effectively, both orally and in writing.

Healthcare professionals will understand how their role fits into their department, their organization and the overall healthcare environment. They will identify how key systems affect services they perform and quality of care.

Healthcare professionals will understand how employability skills enhance their employment opportunities and job satisfaction. They will demonstrate key employability skills and will maintain and upgrade skills, as needed.

Healthcare professionals will understand the legal responsibilities, limitations, and implications of their actions within the healthcare delivery setting. They will perform their duties according to regulations, policies, laws and legislated rights of clients.

Healthcare professionals will understand the roles and responsibilities of individual members as part of the healthcare team, including their ability to promote the delivery of quality healthcare. They will interact effectively and sensitively with all members of the healthcare team.

Healthcare professionals will understand the fundamentals of wellness and the prevention of disease processes. They will practice preventive health behaviors among the clients.

Healthcare professionals will use information technology applications required within all career specialties. They will demonstrate use as appropriate to healthcare applications.