

Course Title: Medical Terminology

Department: Medical Academy

Course Number: 5403

Grade Level(s): 10-12

Length of Course: 1 Year

Prerequisite(s): Health Careers I and Health Careers II, or permission of instructor.

UC/CSU (A-G) Req:

Brief Course Description: This is the 3rd year course of a 4 year-long program which deepens its investigation of the language of medicine. This course is an introduction to medical terminology as used by health personnel, including physicians, nurses, dentists, medical secretaries, insurance clerks and medical office assistants. Medical terminology is a useful course in preparation for entrance into any medical course of study such as nursing, emergency medical technician or medical assisting. This course is articulated with Mt. San Jacinto Community College to provide a matriculated pathway to other science and health science related careers.

I Goals

The student will:

- A. Identify word roots and combining forms related to body systems and pathologies. (B5.0)
- B. Describe organs of each body system and their functions. (B2.0)
- C. Formulate terms related to body systems. (B2.0 and B5.0)
- D. Using relevant medical terminology, define and describe pathologies related to body systems. (B5.0)
- E. Describe medical procedures, using relevant medical terminology, related to body systems. (B5.0 and B12.0)
- F. Interpret medical abbreviations used in the study of body systems. (B5.0)
- G. Provide written work in response to reading articles related to medicine and current medical technologies. (B6.0)
- H. Research and present information regarding diseases and treatments using digital technologies. (B2.0)
- I. Define HIPAA (Health Insurance Portability and Accountability Act) guidelines and maintain HIPAA guidelines in communications during work-based learning activities. (B6.0)
- J. Comply with protocols and preventative health practices to maintain a safe and healthy environment during work-based learning activities. (B10.0)

II Outline of Content for Major Areas of Study

Semester I:

- A. Introduction to Medical Terminology:
 - 1. Pronunciation and spelling.
 - 2. Word roots and word building.
 - 3. General grammatical rules
- B. Body Structure Overview:
 - 1. Directional and positional terms.
 - 2. Word building relating to body structure.
- C. The Systemic Approach: Specific work groupings relating to the pathologies, major disorders and procedures of each body system.
 - 1. Integumentary System
 - 2. Musculoskeletal System
 - 3. Endocrine System
 - 4. Cardiovascular System

Semester II:

- D. The Systemic Approach continued: Specific work groupings relating to the pathologies, major disorders and procedures of each body system.
 - 1. Lymphatic and Hematic System
 - 2. Respiratory System
 - 3. Digestive System
 - 4. Urinary System
 - 5. Reproductive System
 - 6. Nervous System
 - 7. Special Senses: The Eye and The Ear
- E. Special Topics:
 - 1. Dentistry
 - 2. Emergency Medicine
 - 3. Gerontology
 - 4. Nuclear Medicine
 - 5. Oncology

III Accountability Determinants

- A. Methods of Instruction: Methods of instruction may include, but are not limited to the following:
 - 1. Lecture, multimedia presentations/simulations, relevant to course.
 - 2. Lecturing, in conjunction with Power Point, overheads, slide projectors, handouts, and models.
 - 3. Small group discussion and analysis.
 - 4. Individual and small group learning activities, i.e., CD-Rom, videos, textbook worksheets; use Chromebooks and/or lap top computers for web-based activities and research.

5. Quizzes on combining forms, suffixes, prefixes, and medical terms for correct spelling.
 6. Community Internship in local medical facilities both human and animal
- B. Methods of Evaluation:
1. Chapter self-exam assignments.
 2. Computerized self-exams on the CD-Rom or Internet access.
 3. One (1) in-class Mini Capstone presentation related to intern experience
 4. Fourteen (14) exams, including a final exam.
 5. Active class participation in discussions and presentations.

IV Instructional Materials

A. Required Textbook(s):
Title: Medical Terminology: A Living Language
ISBN: 13: 978-0-13-136554-4
Edition: Hardback
Author(s): Fregman, Bonnie F., PhD
Publisher: Prentice Hall, Inc. (Pearson Education)

B. Soft-back Workbook: ISBN: 13: 978-0-13-136558-2

C. Supplemental Materials:
Taber's Encyclopedia, Medical Dictionary: Class set 40 Latest Edition.

D. Other Reference Materials/Supplies:
Prestige Medical 46 EKG Calipers 41 Class set

V Examples of Assignments:

- A. Students will be expected to understand and critique college level texts or the equivalent. Reading, Writing as well as out of class assignments are required. These assignments may include but are not limited to the following:
1. Recognize and interpret medical abbreviations from case scenarios that are utilized in the medical profession.
 2. Create a three-dimensional model of the heart and identify the four (4) heart chambers, muscle layers, and interventricular septum walls, location of specific cardiac diseases and the conduction system of the heart.
 3. Locate the nine (9) regions of the abdominal area on a mannequin.
 4. In groups, create models depicting various types of bone fractures.
 5. Develop through group process, a project related to medicine or health, present it to the class, and include pertinent medical terminology in the presentation.
- B. Sample questions from self-examination assignments:
1. Which directional term means more toward the head or above another structure?
 2. The impulse for the heartbeat (the pacemaker) originates in the:
 3. The passageway for food, liquids, and air is this: