

CTR 112 Clinical Research Terminology

COURSE DESCRIPTION:

Prerequisites: CTR 110

Corequisites: None

This course is designed to enhance and augment the student's knowledge of basic medical terminology. Emphasis is on terminology, acronyms, abbreviations, and initials commonly used in clinical research and the terminology associated with medicine. Upon completion, students will be able to utilize and apply standard medical and research terminology in effective written and verbal communication.

Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

LEARNING OUTCOMES:

Upon completion of this course, the student will demonstrate basic cognitive and practical knowledge and skills in each of the following areas:

1. Utilize and apply standard medical terminology.
2. Utilize and apply the terminology commonly found in clinical research and drug/device development.
3. Utilize and apply standard pharmaceutical and pharmacologic terminology.
4. Utilize and apply terminology commonly associated with data management, statistics, and quality control as used in clinical research.

OUTLINE OF INSTRUCTION:

- I. Utilize and apply standard medical terminology effectively
 - A. Identify the meanings of word roots, prefixes and suffixes of medical terms.
 - B. Utilize medical terminology effectively.
 - C. Distinguish common medical abbreviations and acronyms.
 - D. Develop an active vocabulary of medical terms across multiple therapeutic areas.
 - E. Associate medical terms with specific body systems and demonstrate an understanding of medical terminology by identifying terms in disease concepts and medical procedures.
 - F. Navigate sample medical charts, including laboratory reports, clinical notes, and diagnostic results to extract relevant information and identify key medical findings.
- II. Utilize and apply the terminology commonly found in clinical research and drug/device development
 - A. Identify the meanings of common terms and abbreviations used in clinical research, including terminology associated with essential documents such as protocols, informed consent forms, and investigator's brochures.
 - B. Utilize common terms and abbreviations appropriately.
 - C. Practice effective communication skills in simulated clinical research activities.
 - D. Develop awareness of terminology relevant to decentralized clinical trials, technology utilization in clinical research, and the integration of digital tools and platforms in the field.
 - E. Identify and articulate concepts and terminology associated with clinical research ethics and regulations.

- F. Recognize the importance of diversity and inclusion in clinical research, and terminology related to health disparities, health equity, and culturally competent research.
 - G. Develop proficiency in searching, reading, critically analyzing, and comprehending scientific literature, and apply critical thinking skills when evaluating the quality and validity of research findings presented in clinical research publications.
- III. Utilize and apply standard pharmaceutical and pharmacologic terminology
- A. Identify the meanings of standard pharmaceutical and pharmacologic terminology.
 - B. Utilize standard pharmaceutical and pharmacologic terms and abbreviations accurately.
 - C. Interpret pharmaceutical and pharmacologic information presented in medical charts and laboratory reports.
 - D. Apply pharmacologic terminology associated with drug interactions and adverse events.
- IV. Utilize and apply terminology commonly associated with data management, statistics, and quality control as used in clinical research
- A. Identify the meanings of common terms associated with data management, statistics and quality control as used in clinical research.
 - B. Utilize common terms associated with data management, statistics and quality control as used in clinical research in effective communications.
 - C. Recognize common terms related to data collection, data entry, and data cleaning processes.
 - D. Describe the essential components of clinical trial design and understand their basic relevance to statistical analysis.
 - E. Understand terminology associated with the processes and entities established to ensure quality control and safety.

REQUIRED TEXTBOOK AND MATERIAL:

The textbook and other instructional material will be determined by the instructor.