

7619 Principles of Health Science

Credit: 1

Prerequisite: None

Is your future in the health care field? Learn the essential elements related to the health care field; medical terminology, anatomy and physiology, human growth and development, CPR, first aid, the basic concepts of illness and wellness, and medical communications skills for both patients and medical staff. Learning how to create a dental mold, insert an IV, or create a compound are just a few of the hands-on activities you will explore in this course.

7620C Medical Terminology

Credit: 1

Prerequisite: Biology or concurrent enrollment and Principles of Health Science for Health Science endorsement

Develop a working knowledge of the language used by health care workers. Learn how to identify medical terminology as it relates to the body systems and as it is used in the medical environment. Learn the study of word origin and structure through the introduction of prefixes, suffixes, root words, plurals, abbreviations and symbols, surgical procedures, medical specialties and diagnostic procedures. This course can earn college credit based on Articulation agreements with Alvin Community College.

7621 Health Science Theory

7622 Health Science Theory + Clinicals

Credit: 1

Prerequisite: Principles of Health Science and Medical Terminology. Anatomy & Physiology concurrent enrollment recommended.

This course will introduce students to a variety of medical professions. Health care professionals need knowledge and skills to communicate using medical terms, chart patient care, and provide first aid/CPR. Learning how to read an X-Ray, calculate dosage, or grow and monitor live cultures are just a few of the hands-on activities you will explore in the Health Science Theory course.

7622L Health Science Clinical

Credit: 1

Prerequisite: Medical Terminology, Anatomy & Physiology or concurrent enrollment recommended. Student must complete an interest form for enrollment and attend a meeting with instructor.

The course is designed to provide students a thorough understanding of the healthcare industry through classroom and rotational experiences. Students will shadow medical personnel in a variety of departments which may include physical therapy, radiology, nursing care, pharmacy, emergency room, surgery, ICU, and medical records. Students will be screened to determine eligibility and access to medical facilities. Enrollment is limited to one class per campus. Additional fees may apply. Mandatory medical facility requirements may apply including but not limited to, immunization records, TB test, Hepatitis B series, criminal background check, fingerprinting, drug screening, and age limitations. Transportation provided. This course is the second hour of the Health Science Block and is taken concurrently with Health Science Theory.

Specialization Options in LCISD:

See course selection guide for more detailed instructions on how to apply for these specializations.

**7630D Practicum in Health Science:
Emergency Medical Technician (EMT) – Dual**

**7631D Practicum in Health Science II:
Advanced Emergency Medical Technician
(AEMT) – Dual**

**7625W Practicum in Health Science II:
Pharmacy Technician**

**7626W Practicum in Health Science II:
Certified Nursing Assistant (CNA)**

7550 Medical Billing & Coding

Credit: 1

Prerequisite: Biology, Health Science Theory

The MBC program is designed to equip students with the knowledge, technical skills, and work habits required for an entry-level position in the medical insurance billing and coding field by offering problem-solving exercises by utilizing real-world scenarios. This program places a strong emphasis on ethics, accountability, professionalism, and the individuals' commitment to the pursuit of lifelong personal, educational and professional development as it relates to the medical insurance billing and coding field. The Medical Billing & Coding Program prepares and qualifies students to sit for the national certification exam as an Insurance Coding Specialist through NCCT Inc.

7640CW Anatomy and Physiology

Credit: 1

Prerequisite: Two science credits

Study the energy needs of the human body, how it maintains homeostasis, and its transport systems, electrical conduction processes, environmental factors affecting the body, and the process of reproduction, growth and development. Special projects, research studies, and creative assignments that reflect independent thinking are required. This course is a Career and Technical Education funded course and requires 40% laboratory and fieldwork requirements. This course can earn college credit based on Articulation agreements with Alvin Community College; Articulation agreements are subject to change.

7650 Medical Microbiology

Credit: 1

Prerequisite: Two science credits

Study the role of microbes in infectious diseases and the relationship between microbes and health maintenance. This course requires a greater degree of student skill in math and laboratory proficiency. Field studies and research projects are required in this course. This course is a Career and Technical Education funded course, and requires 40% laboratory and fieldwork requirements