**7619C 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. This course can earn college credit based on Articulation agreements, which are subject to change.

**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, which are subject to change.

**Medical Terminology – Dual 7620BD (Spring)**

**Credit: .5**

**Prerequisite: Medical Terminology, College/University requirements.**

HITT 1305 is a dual credit online course taken at the high school campus from the college instructor in the Health Information Technology department at WCJC and collaborates with the Health Science high school teacher during the semester. 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. Student admission procedures will be outlined for the student. Payment of college tuition, fees, and books required for this course are the responsibility of the student. Refer to the section describing Dual/Concurrent College Courses in the “High School Overview” page of this catalog.

**7621C Health Science Theory**

**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 training. 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. This course can earn college credit based on Articulation agreements, which are subject to change.

**7622C 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.**

This course is the second hour of a Health Science Block and is taken concurrent with Health Science Theory. Students will receive a thorough understanding of the healthcare industry through classroom and rotational experiences. Rotations will include shadowing 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. .

**7640C Anatomy and Physiology**

**Credit: 1**

**Prerequisite: Biology, a second science**

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, which are subject to change.

**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**

**7625C Pharmacology**

**7626C 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.

**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