

### **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, medical communications skills for both patients and medical staff. Learn 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 (may be taken concurrently), 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, 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.

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

### **7622C Health Science Clinical**

Credit: 2

Prerequisite: Principles of Health Science; Medical Terminology and Junior year. Anatomy & Physiology concurrent enrollment recommended; Student must

complete an interest form for enrollment and attend a meeting with the instructor. This course consists of Health Science Theory and Health Science Clinical. 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. Industry certification testing will be available for CPR and EKG to all students meeting testing criteria, see teacher for these details. Students will be screened to determine eligibility and access to medical facilities. Enrollment is limited due to medical facility guidelines. Additional fees may apply. Mandatory medical facility requirements may apply including, but not limited to, a criminal background check, fingerprinting, drug screening, proof of personal medical insurance, and age limitations. Transportation provided. This course can earn college credit based on Articulation agreements, which are subject to change.

### **7625C Pharmacology**

Credit: 1

Prerequisite: Principles of Health Science, Medical Terminology, Health Science Theory or Health Science Clinical; Recommended Anatomy & Physiology (may be taken concurrently). Pharmacology is required to be taken the final year of high school. Become certified or licensed as a Pharmacy Technician. Complete an intense study of the basic terms and definitions while learning the ethical issues involved in the profession. Industry certification testing is offered to all students meeting testing requirement; see teacher for details. This course can earn college credit based on Articulation agreements, which are subject to change.

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

Credit: 2

Prerequisite: Principles of Health Science, Medical Terminology, Health Science Theory or Health Science Clinical; Anatomy & Physiology or Medical Microbiology (may be taken concurrently). CNA is to be taken final year of high school. Student must complete an interest form for enrollment and attend a meeting with instructor. Student must complete WCJC online application; provide Permit to Register, transcripts, shot record and TB test. See WCJC for additional enrollment and orientation process requirements.

This course provides the knowledge and skills for certification and employment as a Certified Nurse Aide (CNA). The course will be taught in both the classroom and an offsite facility. Course includes hands-on labs, communication and interpersonal skills, medical terminology, and career development. Students will also be required to complete at least 40 hours of clinical training (which includes care of nursing home residents) in order to sit for the state Certified Nurse Aide/Assistant certification exam. Students will be expected to assist in taking vital signs, bathing, dressing, making beds, assisting with meals, and other direct resident care. Student enrollment is limited due to medical facility guidelines. Mandatory medical facility requirements may apply including, but not limited to, a criminal background check, fingerprinting and drug screening. Additional costs may include, but are not limited to, scrubs, required personal laboratory tools, immunizations, TB testing and required certification fees. Course is taught at THS only and enrollment is limited. Transportation provided.

### **7627W Practicum in Health Science-General**

Credit: 2

Prerequisite: Health Science/Health Science Theory or Health Science Clinical and taken final year of high school; Student must complete an Interest form for enrollment and attend a meeting with the instructor. Students will participate in a teacher-approved training station(onsite or offsite, paid or unpaid) for continuation in this course; must be a minimum age of 16 and hold a valid work documentation to enroll in a paid practicum experience working at least 10 hours per week. Transportation to and from the training station is the responsibility of the student. Workplace visits required by teacher of record every 6 weeks. Training station evaluation will count as 30% of the student's grade.

The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. This course requires employment to allow students to become proficient in a Health Science area. The coursework will focus on customer service, patient care, and technology. Industry certification testing will be available for Certified Medical Assistant to all students meeting testing criteria; see teacher for these details.

**7627EW Practicum in Health Science-General  
Extended**

Credit: 3

Prerequisite: Health Science/Health Science Theory or Health Science Clinical and taken final year of high school. Student must complete an interest form for enrollment and attend a meeting with the instructor. Extended is for students who work a minimum of 15 hours a week in a teacher-approved training station (paid or unpaid off site) for continuation in this course, must be a minimum age of 16 and hold a valid work documentation to enroll in a paid practicum experience. Transportation to and from the training station is the responsibility of the student. Workplace visits required by teacher of record every 6 weeks. Training station evaluation will count as 30% of the student's grade.

This course completes the coherent sequence in the field of Health Science. This occupationally specific course is designed to provide classroom technical instruction and on-the-job training experiences. Students will work on fine tuning their Health Science skills, safety, work ethics, and job-related study in the classroom. Instructor will provide industry standard training. Industry certification testing for Certified Medical Assistant is offered to all students meeting testing requirement; see teacher for details.

**Practicum in Health Science: Emergency Medical  
Technician (EMT) – Dual with WCJC**

**7629AD (Fall)**

**7629CD (Fall)**

Credit: 3

Prerequisite: Biology; Health Science Theory for EMT Endorsement; College/University requirements; this course is offered at WCJC Richmond campus; additional qualifications as per course handout. Students must be CPR certified prior to the start of the course series. WCJC Course number: EMSP 1501 (course taught at FBTC); and EMSP 1160 (Course meeting times TBD at clinical sites) These courses can lead to Emergency Medical Technician (EMT) certification and include all the skills necessary to provide emergency medical care at a basic life support level with an ambulance service or other specialized services. The student will display a working knowledge of clinical information and related topics relevant to the practice of pre-hospital emergency medical care of the EMT level. Clinical experiences are unpaid external learning experiences and students need to complete 72 hours of clinical time. Uniforms must be worn to class and must be purchased by the student. Tuition, fees and

student admission procedures will be outlined for the student; students are responsible for payment of college tuition, fees and books required for this course along with their own transportation to and from the campus. Students must submit a WCJC EMT program application prior to enrolling. Refer to the section describing Dual/Concurrent College Courses in the "High School Overview" page of this catalog. \*Not all Dual Credit courses are offered at all campuses. This course is not eligible for semester exam exemptions.

**Practicum in Health Science II: Advanced Emergency  
Medical Technician (AEMT) – Dual with WCJC  
7631BD (Spring; Completion of 7629 required)**

Credit: 3

Prerequisite: Practicum in Health Science EMT; College/University requirements; this course is offered at WCJC Wharton campus; additional qualifications as per course handout. Students must have completed EMSP 1501, EMSP1160 and taken/passed their EMT certification exam before eligible to take this next dual credit course. WCJC Course number: EMSP1291.

This series of courses can lead to the Advanced Emergency Medical Technician (EMT) certification and continues to instruct students in trauma management, patient assessment and airway management, cardiology and clinical experiences. Clinical experiences are unpaid external learning experiences and students need to complete 196 hours of clinical time during this next series of courses. Uniforms must be worn to class and must be purchased by the student. Tuition, fees and student admission procedures for this course will be the outlined to the student; students are responsible for payment of college tuition, fees and books required for this course along with their own transportation to and from the campus. Students must submit a WCJC EMT program application prior to enrolling. Refer to the section describing Dual/Concurrent College Courses in the "High School Overview" page of this catalog. \*Not all Dual Credit courses are offered at all campuses. This course is not eligible for semester exam exemptions.

**7550W Medical Billing & Coding**

Credit: 1

Prerequisite: Biology, Principles of Health Science/Health Science, Health Science Theory or Health Science Clinical 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 for Certified Billing and Coding Specialist.

**7640C Anatomy and Physiology**

Credit: 1

Prerequisite: Biology; a second science credit 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.