HEALTH SCIENCE TECHNOLOGY EDUCATION

Course Title: Health Science Technology I                      Grade Placement: 10-12
Prerequisite: None                                          Credit: 1 Unit
This course includes skills related to the health care industry. Content relates to patient relationships, working environments, and ethical and legal responsibilities. Entry-level skills will also be developed for taking vital signs, maintaining safety, and performing first aid and CPR. Introduction to basic human anatomy and physiology and medical terminology will prepare the student for a transition to clinical experiences in health care. This course will substitute for the required health education course. Statewide Articulation and Tech Prep college credit are available through community colleges throughout Texas.

Course Title: Health Science Technology II                   Grade Placement: 11-12
Prerequisite: Health Science Technology I, Biology I,       Credit: 2 Units
and District Guidelines
This course will provide for the development of multi-occupational knowledge and skills related to a wide variety of health careers. Students will observe and assist professional health care personnel in clinical/hospital environments. Students must provide their own transportation to their assigned clinical settings. A uniform, stethoscope and professional liability insurance will be required. Statewide Articulation and Tech Prep college credit are available through community colleges throughout Texas.

Course Title: Health Science Technology IIIA                Grade Placement: 12
Certified Nurse Assistant                                    Credit: 1 Unit (2 class
Prerequisite: Health Science Technology I, Biology I,       periods per semester)
and District Guidelines
This is an occupational specific course designed to provide knowledge and skills for certification as a Certified Nurse Assistant. The course of instruction is comprised of classroom instruction and clinical/hospital experience. Students will learn to attend to patients’ hygiene, comfort, nourishment, and social needs. Competencies will be demonstrated by the taking of vital signs, maintaining patient hygiene and safety, and providing infection control. Upon completion of the course, students will be eligible to test for state Certified Nurse Assistant certification. A uniform, stethoscope, fee for certification testing and professional liability insurance will be required. Students must provide their own transportation to the clinical setting. Statewide Articulation and Tech Prep college credit are available through community colleges throughout Texas.
Course Title: Health Science Technology IIIB  
Emergency Medical Technician  
Grade Placement: 12  
Credit: 1 Unit (2 class periods per semester)  
Prerequisite: Health Science Technology I, Biology I, or Anatomy and Physiology of Human Systems with Certification in First Aid and CPR, and District Guidelines

This is an occupational specific course designed to provide knowledge and skills for certification as an Emergency Medical Technician. Instruction will be provided related to patient assessment, spinal immobilization, trauma management, treatment of medical emergencies and mechanical aids to breathing. The EMT program requires an additional ambulance and emergency room experience outside the classroom. The student must be age 17 or turn 18 to participate in the course and take the EMT test. The student must be age 18 to receive the State EMT certification with proof of high school diploma. Student tuitions, uniform, blood pressure cuff, stethoscope and professional liability insurance will be required. Students must provide their own transportation to the training location. Statewide Articulation and Tech Prep college credit are available through community colleges throughout Texas.

Course Title: Health Science Technology IIIC  
Certified Pharmacy Technician  
Grade Placement: 12  
Credit: 1 Unit (2 class periods per semester)  
Prerequisite: Health Science Technology I, Biology I, and District Guidelines  
Additional Recommended Prerequisite: Algebra II with a least a B average

This is an occupational specific course designed to provide knowledge and skills for certification as a Certified Pharmacy Technician. The course of instruction is comprised of classroom instruction, lab applications, and independent study. No clinical hours are required but may be provided based on individual needs and students must provide own transportation. Students will learn federal and state law pertaining to the pharmacy industry, drug classifications, medical terminology, ethical and legal issues, safety, aseptic technique, calculations, career opportunities, and pharmacy operations. Students must be 17 to enroll in the course. Upon completion of the course, students will be eligible to test for state Certified Pharmacy Technician certification. The student must provide proof of high school diploma to receive certification. Student tuition, uniform, computer access, liability insurance and state testing fee will be required.

Course Title: Medical Terminology  
Grade Placement: 10-12  
Credit: 1/2 Unit  
Prerequisite: None

This course is designed to develop a working knowledge of the language of medicine. Students acquire word-building skills by learning prefixes, suffixes, roots, and abbreviations. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student’s ability to successfully secure employment or pursue advanced education in health care. Statewide Articulation and Tech Prep college credit are available through community colleges throughout Texas.
Course Title: Anatomy and Physiology of Human Systems  
Grade Placement: 11-12  
Prerequisite: Biology I and Chemistry I  
Credit: 1 Unit  

In this course students conduct laboratory investigations/fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving. Topics will be presented through an integration of biology, chemistry, and physics. Students will study the structures and functions of the human body and body systems and will investigate the body’s responses to forces, maintenance of homeostasis, electrical interactions, transport systems, and energy systems. Students will also analyze the relationship between anatomical structures and physiological functions of the human systems. This same course is also listed in the Science Section of the Guidance Handbook.