



CHS MEDICAL MAGNET PROGRAM COURSE DESCRIPTIONS

Students desirous of enrolling in the CHS Medical Magnet Program do not have any specific pre-requisite courses that they must take at the middle/junior high school level. Because the program is sequential, as set up, students need to apply, undergo an interview process with a parent/guardian, and begin their coursework at the high school level no later than their sophomore year (would need to take both Introduction to Health Occupations and Medical Terminology) in order to be on target to participate in clinical.

AHEC of a Summer Career Exploration (080200)

Grades: 9-10 **Credit: .5**

This program is an exploratory experience which provides an opportunity for students to work in a health care environment. Emphasis is placed on career opportunities in health care while focusing on requirements and skills necessary for pursuing a career in the medical profession. Educational workshops and group discussions serve as the focus of this program. Topics include, but are not limited to personal qualities of health workers, interpersonal communication skills, current health issues, medical communication skills, , medical terminology, hospital orientation, financial aid for post-secondary education, health professional shortage areas, and CPR certification. Work-based learning includes job shadowing and service learning.

Students must complete applications and be selected by AHEC (Area Health Education Center) to participate in this program.

First Responder (090711)

Grades: 10-12 **Credit: 1**

The First Responder course is a foundation for the Emergency Medical Technician Education Program. Students will receive in-depth training for most medical emergencies. The students will also become a registered First Responder through the State of Louisiana and will obtain certification in CPR (BLS - Health Care Provider CPR) through the American Red Cross. Some of the topics to be covered include first aid, burn treatment, childbirth, patient extrication, human anatomy, AED training, CPR, airway management, hemorrhage control, bandaging, simple spinal immobilization, and simple splinting and infection control. Upon completion of the course, students can pursue specialty career fields such as EMT, CNA, LPN, RN, or MD. This course is also a valuable program for community service programs, such as a fire department volunteer.

In order to receive certification, the student must meet the following requirements: (1) must attend 90% of the total course hours, (2) must pass the course with a 70% or better, (3) must pass the written and practical exams that are administered as part of the course, and (4) must submit an accurate and complete certification application and fee to the Bureau of EMS.

Prerequisites: Student must be at least 16 years old of age to enroll, must have an overall GPA of 2.0 or better, be in good physical health and able to perform the duties of a First Responder, have certification in Professional Rescuer Level CPR (Heartsaver CPR)), complete a criminal background affidavit in their own handwriting, no physical or psychological dependence on substances other than those recognized as therapeutic treatments for valid medical conditions for which they are currently under the care of a physician, a Letter of Good Standing from the high school principal/guidance counselor verifying the required GPA which must be submitted to the Bureau of EMS with the initial roster and student applications

Introduction to Health Occupations (090930)

Grades: 9-12 **Credit: 1**

This is an introductory course designed to provide the student with an exploratory experience that offers information on a variety of health care medical career fields. Education and responsibilities of various health careers will be explored, along with basic concepts common to all health careers. These concepts include medical terminology, safety and accident prevention, professionalism, legal aspects, computers in health care, and an introduction to anatomy and physiology. Appropriate work-based learning strategies for this course include service learning, job shadowing, and field trips to various health facilities. Opportunities for application of clinical and leadership skills are provided by participation in vocational student organizations suited to the student's goal of learning the specifics of each role and that factors that affect professional performance.

Medical Terminology (090151)**Grades: 10-12****Credit: 1**

This course provides students with the ability to identify medical terms by analyzing their components. Emphasis is placed on defining medical prefixes, root words, suffixes, and abbreviations. The primary focus is on skill development, both oral and written, of the language utilized for communication in the health care professions. Opportunities for application of clinical and leadership skills are provided by participation in career and technical student organization activities.

Nurse Assistant (020251)**Grades: 11-12****Credit: 2**

This two-hour blocked course is designed to prepare students to become Certified Nursing Assistants in the state of Louisiana. The Nurse Assistant Certificate Program prepares students for employment in long-term care facilities, home health agencies, and hospitals where basic bedside nursing care is needed. Classroom instruction (200 hours of classroom/theory) includes an introduction to health care, essential OBRA skills required for certification, body structure and function, and the job-seeking process, with an introduction to computer skills, as they relate to the health care industry. Students participate in a minimum of 100 hours of clinical experience through internships at nursing homes, acute hospitals, and/or other health care facilities under the supervision of the instructor (10 hours simulated clinical experience, 90 hours on site clinical experience with a minimum of 40 hours in a nursing home).

Reinforced in this course are medical terminology, science, mathematics, written and oral communication, as well as basic nursing assistant clinical skills. Instruction in CPR and First Aid is presented/reinforced in this course.

Students successfully completing the course with the required grade in clinical experience, a grade of 70% or better on the written examination, and performance assessment will be eligible to become Certified Nursing Assistants in the state of Louisiana.

Prerequisite: Minimum 17 years of age to participate; must have successfully completed Introduction to Health Occupations and Medical Terminology prior to enrollment.

Pharmacy Technician (090005)**Grade: 12****Credit: 2**

This two-hour blocked course is designed to prepare students to take the National Pharmacy Technician Certification Board examination. The course introduces students to the different areas of pharmacy technician practice. Emphasis is placed on pharmacology, drug dosage calculations, pharmacy law, stock inventory, infection control, compounding, maintaining records, anatomy and physiology, and pharmacy terminology. Major emphasis is placed on assisting the Pharmacist in serving patients, maintaining medication and inventory control systems, and participating in the administration and management of pharmacy practice. Appropriate work-based strategies include service learning, field trips, and job shadowing. During the spring semester, students will partner with area pharmacists/ULM College of Pharmacy to obtain observation hours needed for class.

Prerequisite: Graduating senior, reliable transportation for spring observations, 18 prior to high school graduation, minimum overall GPA of 2.5 and a minimum GPA of 3.0 in mathematics and science courses. Students must have a minimum ACT of 20 (if no ACT score available, then student must have a minimum overall GPA of 3.2), completion of the PTCB exam prior to graduation (PTCB exam is the final exam and a passing score is required for students to receive course credit.)

Sports Medicine I (090720)**Grades: 11-12****Credit: .5**

This course will provide an overview of the field of sports medicine as well as expose students to fundamental skills involved in a sports medicine healthcare setting. Students will learn about the study of medicine and how the field of sports medicine is unique in its focus and delivery of healthcare. Topics covered in this class include an examination of the different career paths in the sports medicine field and how each medical profession contributes to a coordinated sports medicine healthcare delivery team. An emphasis on the professional aspects involved in becoming a healthcare provider is also covered. Students will be provided the opportunity to examine a sports medicine facility and explore their policies, procedures and protocols utilized in patient care. A cornerstone of the field of sports medicine is risk management and injury prevention. Students will explore a variety of topics in injury prevention and be able to

participate in skills that healthcare providers utilize to reduce injuries to sports medicine settings. Important skills that healthcare providers are oriented to during their professional career are basic life support for adults and pediatrics. Students are given the opportunity to obtain American Heart Association Cardiopulmonary Resuscitation (CPR) in the Schools certification.

Sports Medicine II (090721)

Grades: 11-12

Credit: .5

This course will provide students with an overview of the pathology of sports injuries and basic management skills. Students will learn about the body's response to an injury and how to apply emergency action principles and skills. An emphasis is placed on an athlete's psychological and sociological response to an injury and coping strategies utilized by healthcare professionals to assist them in recovery. Students will also learn the systematic process healthcare professionals use when evaluating an injury and planning a rehabilitation plan.

Sports Medicine III (090722)

Grade: 12

Credit: 1

This course will provide an overview of common injuries and illnesses in sports and management strategies utilized by healthcare professionals. Students will also work on a variety of projects that require them to synthesize information learned from previous sports medicine courses. Students will learn how to analyze information relevant to the study of sports medicine and investigate it through a systematic process.

Prerequisite: Sports Medicine I and Sports Medicine II with a "C" or better in each