

# **Health Science Academy: PRE-NURSING 2010-2011 Course Syllabus**

## **1. Course Description**

The Health Science Academy is designed for College Tech Prep and career technical education Trumbull County students in Grades 11-12. The course of study portion of this program reflects the academic and technical competencies for secondary education students. The technical focus is on the blending of a variety of Health Care concepts into hands-on applications for the improvement of life. Students transitioning to post-secondary education will receive reinforcement and additional training in these areas.

During the first year all Health Science Academy (HSA) students will complete coursework that is basic/core to all medical programs. Students will then be prepared to take the Nurse Aide Training Competency Program course and test as designed by the Ohio Department of Health. They will then go into one of three pathways in the medical professions: therapeutic or hands on care will be taught in the pre-nursing pathway, utilizing information technology related to documentation of patient testing and care will be the focus of the medical transcriptionist program, and pharmacological science, retail tasks/responsibilities, and institutional pharmacy technician skills will be the focus of the Pharmacy tech program.

Students will be prepared to advance into a post-secondary nursing or other type health care post-secondary education or take the certification exam if their chosen field is Pharmacy Technician or Medical Transcription. These two certifications allow the graduates to work in this profession or use it as a basis for advancement in the career area or other health care profession of their choice.

The students will receive instruction in the following areas:

- Career Exploration, Development, and Employability Traits
- Medical Terminology
- Health and Safety Practices
- General Knowledge of the Human Body
- Obtaining and Recording Subjective and Objective Client Data across the Lifespan, especially Vital Signs
- Healthcare Communication/HIPAA
- Legal & Ethical Issues Related to Health Care
- Business Processes Related to Health Care
- Medical Math
- Nurse Assistant Specialization
- Principles of Growth and Development throughout the lifespan including basic needs and family dynamics
- Emotional needs of the dying individual and their family
- Knowledge of basic pharmacology, including specific information regarding medications, classifications, actions, adverse reactions, safety factors, and methods of administration.
- Fundamental concepts of nursing, physical assessment, nursing procedures, and basic documentation skills
- Safety in the healthcare setting
- Basic nursing skills and procedures
- Employability skills
- Professionalism in the healthcare setting
- Basic critical thinking and decision making skills

## **2. Instructional Philosophy**

Classroom instruction and laboratory experiences are directed toward acquiring knowledge of healthcare and enhancing the student's critical thinking and problem solving skills. A variety of technical, social, ethical and economic scenarios are utilized to enhance each student's innate abilities, drive and values. Pre-Nursing students will also participate in some visitations to community healthcare facilities.

Students will have a clinical component during the STNA portion of the program, approximately 20 clinical hours in a local long-term care facility, with instructor supervision. Students will be expected to apply theoretical concepts to actual, real-life patient situations. Students will be responsible to complete the care of the assigned patients while maintaining patient confidentiality, following the health care facility policies while providing a safe environment for the patient.

### 3. Course Goals

Upon completion of the Health Science Academy: Pre-Nursing course, the student will be able to:

- Discuss Health Care Core material as prescribed by the ODE.
- Demonstrate knowledge of basic healthcare principles and skills.
- Demonstrate knowledge of basic pharmacology principles.
- Demonstrate knowledge of Growth and Development through the lifespan.
- Demonstrate communication skills which enhance collaboration with members of the health care team.
- Provide a safe environment conducive to the well-being of patients, families, co-workers, and self.
- Transition into further career and technical education, two- or four-year postsecondary education setting, or into an entry level STNA position directly out of high school.

### 4. Major Course Assignments and Projects

- **Nurse Aide Training Competency Program test as designed by the Ohio Department of Health-junior year**  
Students will complete the theory and clinical component of the STNA training. Approximately 20 clinical hours in a local long-term care facility will be completed with instructor supervision. Students will be expected to apply theoretical concepts to actual, real-life patient situations. Students will be responsible to complete the care of the assigned patients while maintaining patient confidentiality, following the health care facility policies while providing a safe environment for the patient.
- **TCTC Job Shadow Experience-senior year**  
Students will participate in TCTC's Job Shadow experience. This provides an opportunity for HSA students to explore healthcare career options that the student is interested in. The student will be responsible for arranging their shadow experience.
- **Healthy Life & Complementary Medicine Research Projects-senior year**  
Students will research a topic in each project. Then will create materials and present what they have learned to the class. Possibly, create and present a Health Fair to students at an area elementary school.

### 5. Course Assessment Plan

Grading for this course will be done using the point system. Each assessed area will be given a point value which will be converted to a percentage score at the end of each nine week grading period according to the TCTC grading scale.

Separate grades will be maintained for those courses which have Articulation Agreements with Trumbull Career & Technical Center's Adult Education Medical programs and credit will be awarded according to the Articulation Agreement.