

Health Science Programs of Study

- Nursing Services (TCAT Only)
- Therapeutic Services
- Sport & Human Performance
- Emergency Services

Nursing Services (Through TCAT Pulaski Only)

- **Level 1 C14H03 Dual Enrollment Nursing Services I**
 - **1 credit, prerequisite(s): Health Science Education, Medical Therapeutics, & Anatomy & Physiology**
- **Level 2 C14H27 Dual Enrollment Nursing Services II**
 - **1 credit, prerequisite(s): Health Science Education, Medical Therapeutics, & Anatomy & Physiology**
 - **EPSO: CNA (Certified Nursing Assistant)**

Therapeutic Services

- **Level 1 -C14H14 Health Science Education**
 - **1 credit, open to grades 9 & 10**
 - Health Science Education is an introductory course designed to prepare students to pursue careers in the fields of public health, therapeutics, health services administration, diagnostics, and support services. Upon completing this course, a proficient student will be able to identify careers in these fields, compare and contrast the features of healthcare systems, explain the legal and ethical ramifications of the healthcare setting, and begin to perform foundational healthcare skills.
- **Level 2 or 3 option 1 -C14H15 Medical Therapeutics**
 - **1 credit, prerequisite(s): Health Science Education**
 - **EPSO: OSHA-10 Industry Certification**
 - Explores career opportunities and issues in health care while focusing on leadership development, anatomy and physiology, medical microbiology, pharmacology, and basic skills. Upon successful completion of this course, students will have basic skills, such as checking blood pressure, and will be taught the basics of lifesaving techniques, such as CPR and first aid.
- **Level 2 or 3 Option 2-C14H09H Honors Anatomy & Physiology or C14H09 Anatomy & Physiology**
 - **1 credit, prerequisite(s): Health Science Education**
 - **Satisfies 3rd lab science graduation requirement credit**
 - Health Science Education Anatomy, and Physiology is a course in which students will examine human anatomy and physical functions. They will analyze the descriptive results of abnormal physiology and evaluate clinical consequences. Workable knowledge of medical terminology will be demonstrated.
- **Level 4 -C14H11 Clinical Internship (WBL course)**
 - **1 credit, prerequisite(s): Health Science Education, Anatomy & Physiology, & Medical Therapeutics**

- **Placement in this class is by application only. Drug screenings, immunization, TB skin test, and physicals may be required before you participate in certain rotations. A 90% attendance rate is required in order to receive credit in this class. Students must have completed two health science classes, with one of them being from any health science.**
 - The internships are designed to be completed in a hospital, nursing home, rehab center, medical office, dental office, or other healthcare facility, depending on the elective focus the student has selected.
 - **Level 4 Option 2 -C14H10 Medical Assisting**
 - **1 credit, prerequisite(s): Health Science Education**
 - **EPSO: Clinical Medical Assistant (CCMA)**
 - Medical Assisting is a level 2 or level 3 course designed to prepare students to pursue careers in medical assisting. Upon completion of this course, a proficient student will be able to implement communication and interpersonal skills, provide care safely, prevent emergency situations, prevent infection through infection control, and perform the skills required of a medical assistant. At the conclusion of this course and an appropriate clinical internship, students may sit for the Certified Clinical Medical Assistant (CCMA) exam.

Sport & Human Performance

- **Level 1 -C14H14 Health Science Education**
 - **1 credit, open to grades 9 & 10**
 - Health Science Education is an introductory course designed to prepare students to pursue careers in the fields of public health, therapeutics, health services administration, diagnostics, and support services. Upon completion of this course, a proficient student will be able to identify careers in these fields, compare and contrast the features of healthcare systems, explain the legal and ethical ramifications of the healthcare setting, and begin to perform foundational healthcare skills.
- **Level 2 or 3 option 1 -C14H08 Rehabilitation Careers**
 - **1 credit, prerequisite(s): Health Science Education**
 - **EPSO: OSHA-10 Industry Certification**
 - This course is designed for students interested in various therapies which include, but not limited to, physical therapy, occupational therapy, or sports medicine/athletic training. Upon successful completion, students will gain skills in ankle taping and another prevention taping, rehab of injuries, nutrition, and personal fitness. Students completing this class can apply to the clinical internship class their senior with the completion of A&P.
- **Level 2 or 3 Option 2-C14H09H Honors Anatomy & Physiology or C14H09 Anatomy & Physiology**
 - **1 credit, prerequisite(s): Health Science Education**
 - **Satisfies 3rd lab science graduation requirement credit**

- Health Science Education Anatomy and Physiology is a course in which students will examine human anatomy and physical functions. They will analyze the descriptive results of abnormal physiology and evaluate clinical consequences. Workable knowledge of medical terminology will be demonstrated.
 - **Level 4 Option 1 -C14H22 Exercise Science**
 - **1 credit, prerequisite(s): Health Science Education, Rehabilitation Careers**
 - **EPSO: Certified Personal Trainer (CPT) Industry Certification**
 - Exercise Science is an applied course designed to prepare students to pursue careers in kinesiology and exercise physiology services. Upon completion of this course, proficient students will be able to apply concepts of anatomy and physiology, physics, chemistry, bioenergetics, and kinesiology to specific exercise science contexts. Through these connections, students will understand the importance that exercise, nutrition, and rehabilitation play in athletes or patients with debilitating or acute metabolic, orthopedic, neurological, psychological, and cardiovascular disorders. In addition, students have the opportunity to incorporate communication, goal setting, and information collection skills in their coursework in preparation for future success in the workplace.
 - **Level 4 Option 2 -C14H11 Clinical Internship (WBL course)**
 - **1 credit, prerequisite(s): Health Science Education, Anatomy & Physiology, & Rehabilitation Careers**
 - **Placement in this class is by application only. Drug screenings, immunization, TB skin test, and physicals may be required before you participate in certain rotations. A 90% attendance rate is required in order to receive credit in this class. Students must have completed two health science classes, with one of them being from any health science.**
 - The internships are designed to be completed in a hospital, nursing home, rehab center, medical office, dental office, or other healthcare facility, depending on the elective focus the student has selected.

Emergency Services

- **Level 1 -C14H14 Health Science Education**
 - **1 credit, open to grades 9 & 10**
 - Health Science Education is an introductory course designed to prepare students to pursue careers in the fields of public health, therapeutics, health services administration, diagnostics, and support services. Upon completion of this course, a proficient student will be able to identify careers in these fields, compare and contrast the features of healthcare systems, explain the legal and ethical ramifications of the healthcare setting, and begin to perform foundational healthcare skills.
- **Level 2 or 3 option 1 -C14H15 Medical Therapeutics**
 - **1 credit, prerequisite(s): Health Science Education**
 - **EPSO: OSHA-10 Industry Certification**
 - Explores career opportunities and issues in health care while focusing on leadership development, anatomy and physiology, medical microbiology,

pharmacology, and basic skills. Upon successful completion of this course, students will have basic skills, such as checking blood pressure and will be taught the basics of lifesaving techniques such as CPR and first aid.

- **Level 2 or 3 Option 2-C14H09H Honors Anatomy & Physiology or C14H09 Anatomy & Physiology**
 - **1 credit, prerequisite(s): Health Science Education**
 - **Satisfies 3rd lab science graduation requirement credit**
 - Health Science Education Anatomy and Physiology is a course in which students will examine human anatomy and physical functions. They will analyze the descriptive results of abnormal physiology and evaluate clinical consequences. Workable knowledge of medical terminology will be demonstrated.
- **Level 4 - C14H24 Emergency Services Practicum**
 - **1 credit, prerequisite(s): Health Science Education, Medical Therapeutics, Anatomy & Physiology**
 - **EPSO: Emergency Medical Responder, IS-100.C: Introduction to the Incident Command System, IS-200.C: Basic Incident Command System for Initial Response**
 - Emergency Medical Services Practicum is a capstone course in the Emergency Services program of study that provides a practicum experience for students as they develop an understanding of professional and ethical issues. The capstone course will be based on the knowledge and skills from previous courses in the Emergency Services program of study. Upon completion of the course, students will be proficient in components of communication, critical thinking, problem-solving, information technology, ethical and legal responsibilities, leadership, and teamwork. Instruction may be delivered through school-based laboratory training or through work-based learning arrangements such as cooperative education, mentoring, and job shadowing.