

Health Science Programs of Study

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

Diagnostic 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 -C14H09H Honors Anatomy & Physiology or C14H09 Anatomy & Physiology

- **1 credit, prerequisite(s): Health Science Education**
- **EPSO: OSHA-10 Industry Certification**
- **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 3 -C14H12 Diagnostic Medicine

- **1 credit, prerequisite(s): Health Science Education**
- **EPSO: CPR Certification**
- Designed for students interested in medicine. Includes the study of cardiology, imaging, the medical laboratory, radiology, and other forms of diagnostic medicine. Upon successful completion, students will be able to perform basic medical diagnostic skills.

Level 4 option 1 -C14H18 Cardiovascular Services

- **1 credit, prerequisite(s): Health Science Education, Anatomy & Physiology, & Diagnostic Services**
- **EPSO: Certified EKG Technician (CET) Industry Certification**
- This course is designed for students interested in specific diagnosis and treatment of patients with cardiac and peripheral vascular disease. Upon successful completion, students will have an understanding of the roles and responsibilities of those seeking employment in the cardiovascular field of healthcare. Upon completion of this course, students will be proficient in the anatomy and physiology of the heart and knowledgeable about both invasive and non-invasive cardiovascular procedures. Students who complete a clinical internship in addition to this course will be eligible upon graduation to sit for the Certified Cartographic Technician (CCT) exam; relevant standards are indicated below with (CCT).

Level option 2 -C14H11 Clinical Internship (WBL course)

- **1 credit, prerequisite(s): Health Science Education, Anatomy & Physiology, & Diagnostic Services**
- **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 facilities, depending on the elective focus the student has selected.

Optional Course Work Based Learning Course

- **C14H19 Work-Based Learning: Diagnostic Services Career Practicum (WBL)**
 - **1 credit, up to 2 credits per year, open to grades 11 & 12**
 - Admission into this class is by application only. A student must have a 90% attendance rate for the semester immediately preceding enrollment in this class. Their place of employment must correlate to their chosen Elective Focus and a significant portion of the hours worked must be during the normal school day.
 - Students must be enrolled in a CTE that is related to their job. Students must maintain school attendance of a minimum of 90%, passing grades in all courses, and be able to legally drive to the job site. This course allows students to leave the school campus daily to gain real-world occupational experience.

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 -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 3 -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 3 Option 2 -C14H20 Pharmacological Sciences

- **1 credit, prerequisite(s): Health Science Education**
- **EPSO: Certified Pharmacy Technician (CPT) Industry Certification**
- This course is designed to provide technical instruction and skill development for the student to become gainfully employed in the pharmacy field. The purpose of the Pharmacy Technician program is to provide learning experiences that enable graduates to obtain the basic competencies needed for employment as a Pharmacy Technician in either the institutional or retail setting. A technician is an individual who, under the supervision of a pharmacist, assists in the performance of activities of the pharmacy department, not requiring the professional judgment of a pharmacist. Technicians must be appropriately trained for the functions performed. Upon successful completion of this course and graduation from High School, the student will be eligible to take the state exam for Certified Pharmacy Technician

Level 4 -C14H10 Medical Assisting

- **1 credit, prerequisite(s): Health Science Education**
- **EPSO: Clinical Medical Assistant (CCMA)**
- Medical Assisting is a level 4 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.

Level 4 Option 2 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.

Optional Course Work Based Learning Course

- **C14H48 Work-Based Learning: Therapeutic Services Career Practicum (WBL)**
 - **1 credit, up to 2 credits per year, open to grades 11 & 12**
 - Admission into this class is by application only. A student must have a 90% attendance rate for the semester immediately preceding enrollment in this class. Their place of employment must correlate to their chosen Elective Focus and a significant portion of the hours worked must be during the normal school day.
 - Students must be enrolled in a CTE that is related to their job. Students must maintain school attendance of a minimum of 90%, passing grades in all courses, and be able to legally drive to the job site. This course allows students to leave the school campus daily to gain real-world occupational experience.

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 -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 3 -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 4 -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.

Optional Course Work Based Learning Course

- **C14H47 Work-Based Learning: Sport & Human Performance Career Practicum (WBL)**
 - **1 credit, up to 2 credits per year, open to grades 11 & 12**
 - Admission into this class is by application only. A student must have a 90% attendance rate for the semester immediately preceding enrollment in this class. Their place of employment must correlate to their chosen Elective Focus and a significant portion of the hours worked must be during the normal school day.
 - Students must be enrolled in a CTE that is related to their job. Students must maintain school attendance of a minimum of 90%, passing grades in all courses, and be able to legally drive to the job site. This course allows students to leave the school campus daily to gain real-world occupational experience.

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 -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 3 -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 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 is a capstone course in the Emergency Medical Services program of study and is designed to prepare students to pursue careers in the fields of emergency medicine. Upon completion of this course, proficient students will be able to: identify careers and features of the EMS system; define the importance of workforce safety and wellness; maintain legal and ethical guidelines; correlate anatomy and physiology concepts to the patient with a medical or traumatic injury; and perform EMS skills with a high level of proficiency. If taught by an EMT instructor, students will be allowed to sit for the National Emergency Medical Responder certification. In addition, students will continue to add artifacts to a portfolio, which they will continue to build throughout the program of study.

Optional Course Work Based Learning Course

- **C14H45 Work-Based Learning: Emergency Services Career Practicum (WBL)**
 - **1 credit, up to 2 credits per year, open to grades 11 & 12**
 - Admission into this class is by application only. A student must have a 90% attendance rate for the semester immediately preceding enrollment in this class. Their place of employment must correlate to their chosen Elective Focus and a significant portion of the hours worked must be during the normal school day.
 - Students must be enrolled in a CTE that is related to their job. Students must maintain school attendance of a minimum of 90%, passing grades in all courses, and be able to legally drive to the job site. This course allows students to leave the school campus daily to gain real-world occupational experience.

Human Services Programs of Study (GCHS only) Cosmetology Courses & Sequencing

Level 1 - C19H12 Cosmetology I

- **1 credit, open to grades 9 & 10**
- Cosmetology I is the first level of cosmetology, and it prepares students with work-related skills for advancement into the Design Principles of Cosmetology course. Content provides students the opportunity to acquire basic fundamental skills in both theory and practical applications of leadership and interpersonal skill development. Content stresses safety, environmental issues, and protection of the public and designers as integrated with principles of hair design, nail structure, and cosmetic procedures. Laboratory facilities and experiences simulate those found in the cosmetology industry.

Level 2 - C19H14 Cosmetology II

- **1 credit, prerequisite(s): Cosmetology I**
- Cosmetology II is the second level of cosmetology and prepares students for work-related skills and advancement into the Chemistry of Cosmetology course. Content allows students to acquire knowledge and skills in both theory and practical application. Advanced knowledge and skills in hair design, nail artistry, and cosmetic applications will be enhanced in a laboratory setting, which duplicates cosmetology industry standards. Upon completing and acquiring 600 hours for Manicuring, students are eligible to take the Tennessee Board of Cosmetology manicuring examination for a Tennessee Shampoo Tech / Manicure License. Students will be required to buy a manikin. Approximate cost \$30-\$35.

Level 3 - C19H13 Cosmetology III

- **1 credit, prerequisite(s): Cosmetology I, II**
- Cosmetology III is the advanced level of cosmetology, and it prepares students to perform work-related services using chemicals in the cosmetology industry. Content provides students the opportunity to acquire foundation skills in both theory and practical applications. Laboratory facilities and experiences will be used to simulate cosmetology work experiences. Upon completing and acquiring 1500 hours, students can take the Tennessee State Board of Cosmetology examination for a Tennessee Cosmetology License. Upon completing and acquiring 600 hours of Manicuring, students can take the Tennessee State Board of Cosmetology Manicuring examination for a Tennessee Manicuring License. Students will be required to buy a manikin. Approximate cost \$30-\$35.

Level 4 C19H21 Cosmetology IV

- **1-2 credits, prerequisite(s): Cosmetology I, II, III**
- **EPSO: Tennessee Cosmetologist License 1010**
- Cosmetology IV is the capstone course in the Cosmetology program of study intended to prepare students for careers in cosmetology by developing an understanding and practical skills in efficient and safe work practices, career and business analysis, advanced hair techniques, and chemical services, and state board theoretical and practical application. Proficient students will have applied the full range of knowledge and skills acquired in this program of study toward experiences in practical applications of cosmetology practices as approved by the instructor. Laboratory facilities and experiences simulate those found in the cosmetology industry.

Optional Course Work Based Learning Course

- **C19H35 Work-Based Learning: Cosmetology Career Practicum (WBL)**
 - **1 credit, up to 2 credits per year, open to grades 11 & 12**
 - Admission into this class is by application only. A student must have a 90% attendance rate for the semester immediately preceding enrollment in this class. Their place of employment must correlate to their chosen Elective Focus and a significant portion of the hours worked must be during the normal school day.
 - Students must be enrolled in a CTE that is related to their job. Students must maintain school attendance of a minimum of 90%, pass grades in all courses, and be able to legally drive to the job site. This course allows students to leave the school campus daily to gain real-world occupational experience.