



Harriman High School CTE Courses

Information Technology



Information Technology Foundations (ITF) is a course intended to provide students with exposure to various information technology occupations and pathways such as Networking Systems, Programming and Software Development, and Web Design. As a result, students will complete all core standards, as well as standards in two of three focus areas. Upon completion of this course, proficient students will

be able to describe various information technology (IT) occupations and professional organizations.

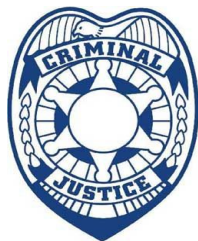
Programming & Logic I is a course intended to teach students the basics of computer programming. The course places emphasis on practicing standard programming techniques and learning the logic tools and methods typically used by programmers to create simple computer applications. Upon completion of this course, proficient students will be able to solve problems by planning multistep procedures; write, analyze, review, and revise programs, converting detailed information from workflow charts and diagrams into coded instructions in a computer language; and will be able to troubleshoot/debug programs and software applications to correct malfunctions and ensure their proper execution.

Web Design Practicum is a capstone course intended to provide students with the opportunity to apply the skills and knowledge learned in previous Web Design courses toward the completion of an in-depth project with fellow team members. Students who have progressed to this level in the Web Design program of study take on more responsibilities for producing independent work and managing processes involved in the planning, designing, refinement, and launch of a website.

Blue Devils



Criminal Justice



Criminal Justice I - This course provides a comprehensive study of how the law enforcement and legal and correctional systems interact with each other in the United States. Students may test for certification in CPR.

Criminal Justice II - This course prepares students for advanced work in crime scene analysis and forensic science. Special emphasis is placed on best practices and professional traits required of law enforcement and legal professionals. This class meets the graduation requirement for Government. *Prerequisite:* Criminal Justice I.

Criminal Justice III - This course is designed to provide students with the knowledge and skills needed to be successful in the sciences of criminal investigations. Students will analyze evidence through simulated crime scenes and evaluation of case studies. *Prerequisites:* Criminal Justice I and II.

Nursing



Health Science Education is an introductory course designed to prepare students to pursue careers in the fields of biotechnology research, therapeutics, health informatics, diagnostics, and support services.

Medical Therapeutics is an applied course designed to prepare students to pursue careers in therapeutic services. Upon completion of this course, a proficient student will be able to identify careers in therapeutics services; assess, monitor, evaluate, and report patient/client health status; and identify the purpose and components of treatments.

Medical Terminology is a course designed to provide students with the opportunity to develop working knowledge of the language of healthcare professionals. Students will acquire vocabulary-building and problem-solving skills by learning prefixes, suffixes, roots, combining forms, and abbreviations commonly used in medical fields. Utilizing a body systems approach, students will define, interpret, and pronounce medical terms relating to structure and function, pathology, diagnosis, clinical procedures, and pharmacology.

Blue Devils



Work Based Learning (WBL)

Work-based learning activities are part of a structured system for high school seniors that allows them to apply classroom theories and to explore career options at the work site or connect classroom learning to work.

STEM



Principles of Engineering - Students evaluate existing engineering designs, use sketching and drawing techniques and complete simple design projects. *Prerequisite:* B average or above in previous math.

Digital Electronics - Students construct and test digital logic circuits with hands-on activities, real-world equipment, and current technology. *Prerequisites:* Principles of Engineering.

Robotics & Automated Systems - This is an applied course for students who want to explore how robots and automated systems are used. *Prerequisites:* Principles of Engineering; and Digital Electronics.

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