CTE Course Progression

	Digital Art & Design	Graphic Communications	General Management	Media Tech	Project Lead the Way Computer Science w/drone certification	Project Lead the Way Biomedical Science
1st course DA-Spring 2021 **GC-Fall 2020** **Media Tech 1-4 open** **All General Management-open** **Drones-Spring 2021 (cohort A)**	Digital Art & Design 1-Students have the opportunity to apply to graphic comm. Upon teacher approval and grade of 90 or higher.-Begin 9th grade	Graphic Communications 1 -Begin 10th grade	Web Design-9th grade	Media Tech 1-can start in 9th grade	Computer Essentials with Drones 1 -start 10th grade	Principles of Biomedical Science
2nd course DA-Spring 2021 **GC-Spring 2021** **Media Tech 1-4 open**	Digital Art & Design 2	Graphic Communications 2	Entrepreneurship-Begin 10th grade with a C or better in Web Design	Media Tech 2	Computer Principals with Drone 2	

All General Management-open **Drones-Cohort A-Fall 2021**						
3rd course DA-Fall 2021 **GC-Fall 2021** **Media Tech 1-4 open** **All General Management-open** **Drones-Spring 2022 (cohort A)**	Digital Art & Design 3 Honors	Graphic Communications 3 Honors	Accounting 1-Can take in 10th grade. (possibly marketing) PREREQUISITE: Completion of Algebra I or equivalent with a grade of C or better and/or accounting instructor approval	Media Tech 3 Honors	AP computer science Drone 3	
4th course DA-Spring 2022 **GC-Spring 2022**	Digital Art & Design 4 Honors	Graphic Communications 4 Honors		Media Tech 4 Honors-apply and must be approved by the instructor	Cybersecurity with Drone internship	

Media Tech 1-4 open **All General Management-open** **Drones-Spring/summer 2022 (cohort A)**					
Optional course	WBL Business/print shop-Students must have taken both classes above, and fill out an application with the teacher and be accepted. This is for one semester. For more options see Graphic Communications.		WBL Business/print shop-Students must have taken all the classes above, and fill out an application with the teacher and be accepted. These students would work in logistics, sales, and accounting.	Broadcasting as an internship for behind the scenes.	

Course	Teacher	Room #
Digital Arts Graphic Communications (print shop)	Glenn Thomas	604
Entrepreneurship Personal Finance (required by HPA for graduation through Dave Ramsey's program)	Marcus Watts	611
Accounting	open	open
Media Tech 1-4 Broadcasting-new	Jacob Thornton	706
PLTW Computer Science/Drones	Hal Weber	602
PLTW Biomedical Science (begins Spring 2022	Alex Capps	616
Teacher Cadets	Kylie Painter	613
Web Design	Glenn Thomas, Marcus Watts, and Jacob Thornton	

Course Descriptions

DIGITAL ART AND DESIGN 1, 2, 3, AND 4 Course Codes: 6120, 6121, 6122, 6123 PROGRAM DESCRIPTION: The ever changing and global technological advancements offer newer and broader opportunities in the creative industry. The Digital Art and Design program prepares students for a multitude of careers in the graphic design field. This program provides instruction in layout, computer design, electronic art, color enhancement, and digital photography. Students use design concepts, principles, and processes

that meet client expectations using Adobe Creative Suite Software: Photoshop, Illustrator, and InDesign. Students will have the opportunity to attain Adobe Certified Associate certification. Career development and employability skills are the foundation of all career and technology education. Students will compile their works for inclusion in a portfolio, for use in this program of study, the workforce, or postsecondary education. **Students can test for Adobe certifications.**

Graphic Communications 1-4 Course codes 6201-03
Students will use knowledge of Adobe illustrator, Photoshop, and InDesign to learn how to Offset Lithography, Flexography, ScreenPrinting, Digital Printing, and planning and estimating are taken up to a level of difficulty after learning basics in GC 1. Students will design multiple designs on a variety of blanks for sales to clubs, organizations, fundraisers, etc for inside the school. The ultimate goal is to take over and run the school store and take on customers outside of the school.

MEDIA TECHNOLOGY 1, 2, 3, 4 (COURSE CODES: 6124, 6125, 6126, 6127) PROGRAM DESCRIPTION: In the Media Technology program, students will explore the general field of communications focused primarily on media production industries. Students will get hands-on experience in basic production techniques for audio, video, and film. They will work collaboratively while writing, producing, directing, and editing projects of increasing complexity, using industry-standard software and equipment. Students will also learn about related fields such as graphic design, broadcast journalism, animation, sound design and engineering, special effects, online media development, marketing, and corporate communications. Program completers will compile their works for inclusion in a portfolio, for use in this program of study, the workforce, or postsecondary education. WBL is open to MT 4 students to work in our broadcasting class.

Project Lead the Way Computer Science with Drones

Computer Science Essentials exposes students to a diverse set of computational thinking concepts, fundamentals, and tools, allowing them to gain understanding and build confidence. Students use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python® to create apps and develop websites, and learn how to make computers work together to put their design into practice. They apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them.

Computer Science Principles

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. While this course can be a student's first in computer science, students without prior computing experience are encouraged to start with Computer Science Essentials. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. PLTW is recognized by the College Board as an endorsed provider of curriculum and

professional development for AP® Computer Science Principles (AP CSP). This endorsement affirms that all components of PLTW CSP's offerings are aligned to the AP Curriculum Framework standards and the AP CSP assessment.

Computer Science A

Computer Science A focuses on further developing computational thinking skills through the medium of Android™ App development for mobile platforms. The course utilizes industry-standard tools such as Android Studio, Java™ programming language, XML, and device emulators. Students collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and Web-based databases. This course aligns with the AP CS A course.

Cybersecurity (Coming Fall 2023)

Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

General Management

ENTREPRENEURSHIP ACTIVITY COURSE CODE: 5400 COURSE DESCRIPTION:
This course is designed to provide students with the knowledge and skills needed to develop an effective business plan for small business ownership. An important part of the course will be the incorporation of economics, ethics, legal aspects, logistics, research, staffing, strategies for financing, and technology.

ACCOUNTING 1 COURSE CODE: 5001 COURSE DESCRIPTION: This course is designed to help the student develop an understanding of the concepts, principles, and practices necessary in the preparation and maintenance of financial records concerned with business management and operations. Students are exposed to the accounting cycle, cash control systems, payroll, and careers in accounting.

FUNDAMENTALS OF WEB PAGE DESIGN AND DEVELOPMENT COURSE CODE: 5031 COURSE DESCRIPTION:
This course will guide students in the development of websites in a project-based, problem-solving environment. Students will learn HTML, CSS, and basic scripting in a language like JavaScript in order to create websites that are well-organized, universally accessible, responsive, and easy to navigate. Students will learn the technological processes, requirements, and legal ramifications for publishing their websites. Students will learn how to create a portfolio of content-rich, well-styled websites. Successful completion of this course will prepare students for industry certification.

Personal Finance 5131
COURSE DESCRIPTION: Personal Finance course introduces students to the fundamentals of personal finance, which include budgeting, credit and lending processes, maintaining accounts, evaluating investments, managing financial risk, computing taxes, and analyzing the basic elements of finance. Students will be exposed to the tools and knowledge to make sound financial decisions for life.

PLTW Principles of the Biomedical Sciences™
This course provides an introduction to the biomedical sciences through exciting hands on projects and problems. Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious

diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, research processes and bioinformatics. Key biological concepts including homeostasis, metabolism, inheritance of traits, and defense against disease are embedded in the curriculum. Engineering principles including the design process, feedback loops, and the relationship of structure to function are also incorporated. This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses.

Teacher Cadet

This course is a study of the history, development, organization, and practices of preschool, elementary, and secondary education. It is partially funded through Education Improvement Act initiatives and operates under an agreement between the school site and the Center for Educator Recruitment, Retention, & Advancement (CERRA) located in Rock Hill, South Carolina.