

**Robertson County Schools**  
**High School Catalog of Courses**

**East Robertson High School**

**Greenbrier High School**

**Jo Byrns High School**

**Springfield High School**

**White House Heritage High School**

**Robertson County Virtual School**

**Robertson Co. Phoenix Academy**

**The Innovation Academy of Robertson  
County**

Rev. January 2023

## Graduation Requirements for Robertson County Students

English.....4 credits

Mathematics.....4 credits

*(Algebra I, Algebra II, Geometry, and a Senior math or STEM math course)*

Science.....3 credits

*(Biology I, Chemistry or Physics, additional laboratory science)*

Social Studies.....3 credits

*Required: U.S. History and Geography, World History and Geography,*

*Economics and Government (1/2 credits each)*

Wellness/PE.....1 1/2 credits

Personal Finance......1/2 credit

Foreign Language.....2 credits

*(2 units of same language)*

Fine Art.....1 credit

Program of Study.....3 credits

Electives (minimum).....4 credits

**TOTAL.....26 credits**

*Beginning in January 2017, all students seeking a regular diploma must take a civics test and score at least 60% as a requirement to graduate.*

*All students must take the ACT as a graduation requirement.*

## CLASSIFICATION OF STUDENTS

Students are classified based on their years of attendance in high school.

Freshman--A student who has satisfactorily completed the eighth grade.

Sophomore—A student in his/her second year of high school.

Junior—A student in his/her third year of high school.

Senior--A student in his/her fourth year of high school.

SENIORS: Rising seniors must be certain that they are enrolled in all courses needed to meet graduation requirements. Counselors will work with students to ensure that all necessary coursework is completed.

## NCAA FRESHMAN ELIGIBILITY REQUIREMENTS

Graduating students who intend to continue their athletic careers at the college or university levels must understand that inter-collegiate associations and individual institutions may have specific eligibility requirements regarding course requirements, grade point averages, and standardized test scores. The counseling office at each high school can answer these questions for potential student-athletes on an individual basis.

The following eligibility requirements are only a summary of initial eligibility for the NCAA. By the end of a student's junior year, he or she should register with the NCAA Clearinghouse ([www.ncaaclearinghouse.net](http://www.ncaaclearinghouse.net)), where all eligibility decisions are made. Students must also understand that colleges and universities may have additional requirements for admission and eligibility.

1. Students must complete 16 "core-course" requirements to be eligible for a Division 1 institution.
2. Students must have a minimum GPA and standardized test score on file at the Clearinghouse.
3. It is the student's responsibility to ensure that courses for which he/she registers are compliant with NCAA Clearinghouse eligibility as well as the prospective institution.

Dropping or changing classes after registration may jeopardize this eligibility. More information can be obtained from the athletic director.

Please Note: The NCAA Clearinghouse will not accept a Credit Recovery course for credit to satisfy college athletic eligibility requirements.

## MATHEMATICS

Four (4) credits in mathematics are required for graduation: Algebra I, Geometry, Algebra II, and a senior level or STEM mathematics course. Students must have a math course each of their four years in high school.

**Tier III Math Intervention – G02H43** Prerequisite: Determined by school data team.

*Course Description:* This skills-based elective course is designed to support students' learning of the mathematical concepts and skills necessary to be successful in high school mathematics courses.

**Algebra I – G02H00 1 credit**

*Course Description:* - This semester course includes properties of the real number system, linear and quadratic systems, inequalities, operations on real numbers and polynomials, exponents and radicals. Students learn the language of algebra and practice the application of algebraic concepts to real world problems. The Mathematical Practice Standards apply throughout this course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

**Algebra I Advanced – G02H00A 1 credit**

*Course Description:* Advanced Algebra I is a more rigorous math course that sets the foundation for the advanced math courses. It covers the topics of Algebra I in greater depth and at a faster pace, providing time for enrichment activities such as complex problem-solving, use of technology, and reading/writing assignments. Due to the accelerated content and scope of the material, students are expected to do more work outside of the classroom for successful completion of this course.

**Geometry – G02H11 1 credit**

*Course Description:* This course is a survey of the fundamental and advanced concepts of plane geometry and the related topics in three-dimensional, coordinate and transformational geometry. The fundamental purpose of the course in Geometry is to formalize and extend students' geometric experiences from the middle grades. It is designed to teach students how to develop logical thinking skills using undefined terms, definitions, postulates, and theorems. Higher level thinking skills are necessary for successful completion of Geometry as a foundation for upper-level mathematics courses.

**Geometry Advanced – G02H11A 1 credit**

*Course Description:* Geometry Advanced covers all topics of Geometry at a significantly faster pace, in greater depth, and with supplemental topics. Strong analytical thinking skills beyond the rigors of algebraic computation are essential for this course, which strongly emphasizes the concept of proof. As part of the requirement for an advanced level course, students must complete rigorous assignments which may include complex problem-solving, research that involves reading/writing assignments, investigations and explorations, and advanced use of technology.

**Algebra II – G02H05 1 credit**

*Course Description:* Algebra II builds on the previous work with linear, quadratic, and exponential functions. Students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions and continue to expand their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of

logarithms. The Mathematical Practice Standards apply throughout this course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

**Algebra II Advanced – G02HO5A 1 credit**

*Course Description:* This course teaches all topics of Algebra II at a significantly faster pace, in greater depth, and with supplemental topics. It is viewed as a precursor to Pre-Calculus and Calculus. Strong analytical thinking skills beyond the rigors of algebraic computation are essential for this course, which strongly emphasizes the concept of proof. Due to the fast pace and in-depth coverage of material, the student is expected to do more work outside of the classroom for successful completion of this course.

**Statistics –G02H37 1 credit** Prerequisite: Algebra I, Geometry, Algebra II

*Course Description:* This course introduces students to the basic concepts of both descriptive and inferential statistics. Topics include collecting, displaying, interpreting, and analyzing data; surveys and experimental design; drawing conclusions about a population from a sample and predicting with data. Students must have a good understanding of equation solving and be comfortable working with functions and their graphs.

**Applied Mathematical Concepts—G02H42 1 credit**

*Course Description:* This course primarily focuses on application and modeling using mathematics. Application topics include but are not limited to counting, combinatorics, probability, financial math and linear programming. This course is composed of content standards found in Finite Math, Discrete Math and Statistics. The course provides a balance of conceptual understanding, procedural fluency, and application of mathematical concepts, assisting students toward becoming mathematically proficient. Students gain understanding and critical thinking skills that are necessary to be truly college and career ready. The course allows students to connect prior knowledge to new ideas and concepts. Students are provided opportunities to justify both informal strategies and commonly used procedures through distributed practice.

**Pre-calculus –G02H23 1 credit** Prerequisite: Algebra I, Geometry, Algebra II.

*Course Description:* This course combines topics from areas of higher mathematics, including trigonometry, complex numbers, and analytical geometry, sequences and series, probability, exponential and logarithmic functions, graphs, and vectors

**SAILS Statistics-G02H37S 1 credit**

*Course Description:* This course introduces students to the basic concepts of both descriptive and inferential statistics. Topics include collecting, displaying, interpreting, and analyzing data; surveys and experimental design; drawing conclusions about a population from a sample and predicting with data. Students must have a good understanding of equation solving and be comfortable working with functions and their graphs. Students' math subscore on the ACT must be below 19 to be eligible for this course. This course may satisfy the need for remedial course work at colleges.

## ADVANCED PLACEMENT MATHEMATICS

(These courses may only be available at certain schools, virtually, or not at all)

**AP Calculus AB –G02H24 1 credit Prerequisite:** Algebra I, Geometry, Algebra II, and Pre-Calculus.

*Course Description:* This course is devoted mainly to the topics in differential and integral calculus. The scope of the course follows the topics listed in the College Board Advanced Placement Mathematics Course Description. Successful completion of this course will prepare students to take the AP exam with the possibility of earning college credit. Students must attempt the AP exam in order to receive AP credit on their high school transcript.

**AP Statistics –G02H26 1 credit Prerequisite:** Algebra I, Geometry, Algebra II

*Course Description:* This course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: 1. Exploring Data: Describing patterns and departures from patterns; 2. Sampling and Experimentation: Planning and conducting a study; 3. Anticipating Patterns: Exploring random phenomena using probability and simulation; 4. Statistical Inference: Estimating population parameters and testing hypotheses. The use of technology is essential to the student's understanding of core concepts in this course. Students must attempt the AP exam in order to receive AP credit on their high school transcript.

## SOCIAL STUDIES

Three credits in social sciences are required for graduation: Economics, US Government and Civics, United States History and Geography, and World History and Geography.

### **African American History – G04H23 1/2 credit**

*Course Description:* Students will examine the life and contributions of African Americans from the early 1600's through modern America. Students will explore the influence of geography on slavery and the growth of slavery on the American continent. Students will consider urban and rural African American communities and institutions in the North and South leading up to and during the Civil War. Students will investigate the rise and effects of Jim Crow and trace the impact of African American migration through the early twentieth century. Students will explore the impact of the Harlem Renaissance and the conditions and contributions of African Americans during the Great Depression and World War II. Students will examine the successes and failures of the Civil Rights Movement and consider the contemporary issues confronting African Americans.

### **Ancient History – G04H04 1/2 credit**

*Course Description:* Students will examine the major periods of Ancient History from prehistoric times to 1500 AD/CE. Major emphasis will be given to the Neolithic Revolution, the development of river valley civilizations, the rise of Greece and Rome, and the decline and fall of the Roman Empire.

### **Contemporary Issues- G04H17 1/2 credit**

*Course Description:* Students will use inquiry skills to examine the issues that impact the contemporary world. Included in the course will be analysis of the historical, cultural, economic, and geographic factors that have raised certain issues to levels of concern in our nation and around the globe. Students will engage in research and problem solving in order to better understand and assess significant current issues.

### **Economics – G04H13 1/2 credit**

*Course Description:* Students will examine the allocation of scarce resources and the economic reasoning used by government agencies and by people as consumers, producers, savers, investors, workers, and voters. Key elements of the course include the study of scarcity, supply and demand, market structures, the role of government, national income determination, money and the role of financial institutions, economic stabilization, and trade. Students will examine the key economic philosophies and economists who have influenced the economies around the world in the past and present. Informational text and primary sources will play an instrumental part of the study of economics where it is appropriate.

### **Psychology – G04H15 1/2 credit**

*Course Description:* Students will study the development of scientific attitudes and skills, including critical thinking, problem solving, and scientific methodology. Students will also examine the structure and function of the nervous system in human and non-human animals, the processes of sensation and perception, and life span development. Students will study social cognition, influence, and relations. Students will examine social and cultural diversity and diversity among individuals. Students will study memory, including encoding, storage, and retrieval of memory. Students will also

study perspectives of abnormal behavior and categories of psychological disorders, including treatment thereof. Students will elaborate on the importance of drawing evidence-based conclusions about psychological phenomena and gain knowledge on a wide array of issues on both individual and global levels. Throughout the course, students will examine connections between content areas within psychology and relate psychological knowledge to everyday life. Students will explore the variety of careers available to those who study psychology.

**Sociology – G04H14 1/2 credit**

*Course Description:* Students will explore the ways sociologists view society, and how they study the social world. In addition, students will examine culture, socialization, deviance and the structure and impact of institutions and organizations. Also, students will study selected social problems and how change impacts individuals and societies

**United States Government and Civics – G04H12 1/2 credit**

*Course Description:* Students will study the purposes, principles, and practices of American government as established by the Constitution. Students are expected to understand their rights and responsibilities as citizens and how to exercise these rights and responsibilities in local, state, and national government. Students will learn the structure and processes of the government of the state of Tennessee and various local governments. The reading of primary source documents is a key feature of United States Government and Civics standards

**United States History and Geography: Post-Reconstruction to the Present – G04H11 1 credit**

*Course Description:* Students will examine the causes and consequences of the Industrial Revolution and America's growing role in world diplomatic relations, including the Spanish-American War and World War I. Students will study the goals and accomplishments of the Progressive movement and the New Deal. Students will also learn about the various factors that led to America's entry into World War II, as well as its consequences for American life. Students will explore the causes and course of the Cold War. Students will study the important social, cultural, economic, and political changes resulting from the Civil Rights Movement, the Cold War, and recent events and trends that have shaped modern-day America. Additionally, students will learn the causes and consequences of contemporary issues impacting their world today. Students will continue to use skills for historical and geographical analysis as they examine American history since Reconstruction with special attention to Tennessee connections in history, geography, politics, and people. Students will continue to learn fundamental concepts in civics, economics, and geography within the context of United States history. The reading of primary source documents is a key feature of United States history standards. Finally, students will focus on current human and physical geographic issues important in contemporary America and the global society.

**United States History & Geography Advanced –G04H11A 1 credit**

*Course Description:* This course teaches all topics of US History and Geography at a significantly faster pace, in greater depth, and with supplemental topics. The course examines several primary source documents and students are expected to write and cite strong evidence for their writing. Course activities include project-based learning opportunities, extended reading assignments, and integration of technology. Due to the fast pace and in-depth coverage of material, students are expected to do more work outside of the classroom for successful completion of this course.



**World History and Geography: The Industrial Revolution to the Contemporary World—G04H10**  
**1 credit**

*Course Description:* Students will study the rise of the nation state in Europe, the French Revolution, and the economic and political roots of the modern world. They will examine the origins and consequences of the Industrial Revolution, nineteenth century political reform in Western Europe, and imperialism in Africa, Asia, and South America. They will explain the causes and consequences of the great military and economic events of the past century, including the World Wars, the Great Depression, the Cold War, and the Russian and Chinese Revolutions. Finally, students will study the rise of nationalism and the continuing persistence of political, ethnic, and religious conflict in many parts of the world. Relevant Tennessee connections will be part of the curriculum, as well as appropriate primary source documents. Students will explore geographic influences on history, with attention given to political boundaries that developed with the evolution of nations from 1750 to the present and the subsequent human geographic issues that dominate the global community. Additionally, students will study aspects of technical geography such as GPS and GIS, and how these innovations continuously impact geopolitics in the contemporary world.

**Tennessee History – G04H01 1/2 credit**

*Course Description:* Students will examine the history of Tennessee, including the cultural, geographic, economic, and political influences upon that history. Students will discuss Tennessee's indigenous peoples as well as the arrival of EuroAmerican settlers. Students will analyze and describe the foundation of the state of Tennessee. Students will identify and explain the origins, impact, and aftermath of the Civil War. Students will discuss the rise of the manufacturing economy. Finally, students will examine and discuss the Civil Rights Movement and Tennessee's modern economy and society.

**ADVANCED PLACEMENT SOCIAL STUDIES**

**(These courses may only be available at certain schools, virtually, or not at all)**

**AP U.S. History –G04H21 1 credit Prerequisite:** World History and Geography.

*Course Description:* Rigorous and challenging classwork with a strong emphasis on extensive reading, writing and research skills is associated with this college-level course. AP level classes require more independent practice and outside reading than Honors level classes. Coursework requirements are guided by the College Board, therefore students enrolled in this course are expected to take the College Board Advanced Placement Exam in May. AP US History integrates biographical, economic, social, political and cultural perspectives of American history from the Age of Exploration to the present. Students will be required to master the following historical skills: chronological reasoning, comparison and contextualization, creating arguments from evidence and interpretation and synthesis.

**AP World History–G04H29 1 credit**

*Course Description:* Rigorous and challenging classwork with a strong emphasis on extensive reading, writing and research skills is associated with this college-level course. AP level classes require more independent practice and outside reading than Honors level classes. Coursework requirements are guided by the College Board, therefore students enrolled in this course are expected to take the College Board Advanced Placement Exam in May. AP World History is a comprehensive study of the progression of humans throughout the history of the leading civilizations of the world.

Students will learn about the origins and consequences of the great military, economic and cultural events of the past centuries. Topics of study include the Renaissance, the Reformation, the rise of modern states, monarchies, the Enlightenment, revolution, WWI and WWII and its aftermath.

**AP Human Geography-G04H30 1 credit**

*Course Description:* Rigorous and challenging classwork with a strong emphasis on extensive reading, writing and research skills is associated with this college-level course. AP level classes require more independent practice and outside reading than Honors level classes. Coursework requirements are guided by the College Board, therefore students enrolled in this course are expected to take the College Board Advanced Placement Exam in May. This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice.

**PLEASE NOTE: AP courses are taught at a depth and rigor equal to college-level coursework. They will, by their very nature, be more challenging and demanding. Students must sit for the AP exam in order for the high school transcript to indicate AP coursework.**

## SCIENCE

Three (3) credits in science are required for graduation: Biology, Chemistry **OR** Physics, and one other lab science.

**Biology I –G03H03 1 credit** Recommended prerequisite: Physical Science or Environmental Science  
*Course Description:* Biology I is a *laboratory* science course that investigates the relationship between structure and function from molecules to organisms and systems, the interdependence and interactions of biotic and abiotic components of the environment, and mechanisms that maintain continuity and lead to changes in populations over time. Students explore biological concepts through an inquiry approach. Embedded standards for Inquiry, Technology & Engineering, and Mathematics are taught in the context of the content standards for Cells, Interdependence, Flow of Matter and Energy, Heredity, and Biodiversity and Change

**Biology I Advanced – G03H03A 1 credit**

*Course Description:* This course teaches all topics of Biology I at a significantly faster pace, in greater depth, and with supplemental topics. The course makes greater use of hands-on laboratory experiences. Course activities include project-based learning opportunities, extended reading assignments, and integration of technology. Due to the fast pace and in-depth coverage of material, students are expected to do more work outside of the classroom for successful completion of this course.

**Biology II –G03H09 1 credit** Prerequisites: Biology I and Chemistry I

*Course Description:* Biology II is a *laboratory* science course in which students engage in an in-depth study of the principles of biology. This course emphasizes internal and external anatomical structures and their functions, the environmental interaction of organisms, processes of living things, mechanisms that maintain homeostasis, biodiversity, and changes in life forms over time. Students explore biological concepts through an inquiry approach. Embedded standards for Inquiry, Technology & Engineering, and Mathematics are taught in the context of the content standards for Cells, Interdependence, Flow of Matter and Energy, Heredity, Biodiversity and Change, Comparative Anatomy and Physiology, and Botany.

**Chemistry I – G03H12 1 credit Recommended prerequisites:** Physical science, Algebra I

*Course Description:* Chemistry I is a laboratory science course in which students investigate the composition of matter and the physical and chemical changes it undergoes. Students use science process skills to study the fundamental structure of atoms, the way atoms combine to form compounds, and the interactions between matter and energy. Students explore chemistry concepts through an inquiry-based approach. Embedded standards for Inquiry, Mathematics, and Technology & Engineering are taught in the context of the content standards for Atomic Structure, Matter and Energy, and Interactions of matter.

**Chemistry I Advanced – G03H12A 1 credit Recommended prerequisites:** Physical Science-Advanced, Algebra I-Advanced.

*Course Description:* This course teaches all topics of Chemistry I at a significantly faster pace, in greater depth, and with supplemental topics. Strong analytical thinking skills beyond the rigors of

basic chemistry are essential for this course. Students are afforded greater opportunities for laboratory experiences that require higher order thinking and reasoning skills. Due to the fast pace and in-depth coverage of material, students are expected to do more work outside of the classroom for successful completion of this course.

**Chemistry II – G03H15 1 credit Recommended prerequisites:** Chemistry I, Algebra II

*Course Description:* Chemistry II is a *laboratory* science course that builds on topics introduced in Chemistry I. This course investigates chemical bonding and how the kinetic molecular theory and intermolecular forces explain the physical and chemical characteristics of matter. Additional aspects of chemical reactions including limiting reactants, percent yield, equilibrium, reaction rates, and thermochemistry are considered. Students explore chemistry concepts through an inquiry-based approach. Embedded standards for Inquiry, Mathematics, and Technology & Engineering are taught in the context of the content standards for Structure of Matter, States of Matter, and Reactions.

**Earth & Space Science – G03H02 1 credit**

*Course Description:* Earth Science is a *laboratory* science course that explores origins and the connections between the physical, chemical, and biological processes of the earth system. Students experience the content of Earth Science through inquiry-based laboratory investigations and focus on topics associated with matter, energy, crystal dynamics, cosmic evolution, and structure, cycles, geochemical processes, and the expanded time scales needed to understand events in the earth system. Earth Science provides the knowledge, skills, and habits of mind needed for problem solving and ethical decision making about scientific and technological issues. Embedded standards for Inquiry and Technology & Engineering are taught in the context of the content standards for the Universe, Energy in the Earth System, Cycles in the Earth System, and Geologic History.

**Ecology – G03H32 1 credit**

*Course Description:* Ecology is a *laboratory* science course that enables students to develop an understanding of the natural and man-made environment and the environmental problems the world faces. Students explore ecological concepts through an inquiry approach. Embedded standards for Inquiry and Technology & Engineering are taught in the context of the content standards for Individuals, Populations, Communities, Ecosystems, Biomes, Humans and Sustainability.

**Environmental Science – G03H33 1 credit**

*Course Description:* Environmental Science is a *laboratory* science course that enables students to develop an understanding of natural and man-made environments and environmental problems the world faces. Students explore environmental science concepts through an inquiry-based approach. Embedded standards for Inquiry and Technology & Engineering are taught in the context of the content standards for Earth Systems, The Living World, Human Population, Water and Land Resources, Energy Resources and Consumption, Pollution and Waste Production, Global Change, and Civic Responsibility.

**Human Anatomy and Physiology – G03H31 1 credit Recommended prerequisite:** Biology I

*Course Description:* Human Anatomy and Physiology is a *laboratory* science course that includes an in-depth study of the body systems that maintain homeostasis from anatomical, physiological, and

histological perspectives. Students explore anatomical and physiological concepts through an inquiry-based approach. Embedded standards for Inquiry and Technology & Engineering are taught in the context of the content standards for Anatomical Orientation, Protection, Support, and Movement, Integration and Regulation, Transportation, Absorption and Excretion, and Reproduction, Growth, and Development.

### **Physical Science – G03H00 1 credit**

*Course Description:* Physical Science is a *laboratory* science course that explores the relationship between matter and energy. Students investigate physical science concepts through an inquiry-based approach. Embedded standards for Inquiry, Technology & Engineering, and Mathematics are taught in the context of the content standards for Energy, Matter, Motion, and Forces.

### **Physical Science Advanced – G03H00A 1 credit**

*Course Description:* This course teaches all topics of Physical Science at a significantly faster pace, in greater depth, and with supplemental topics. Strong analytical thinking skills are essential for this course. Students are afforded greater opportunities for laboratory experiences as well as the use of project-based learning opportunities. Due to the fast pace and in-depth coverage of material, students are expected to do additional work outside of the classroom for successful completion of this course.

### **Physics – G03H20 1 credit Recommended prerequisites:** Physical Science, Algebra II, or Pre-Calculus

*Course Description:* Physics is a *laboratory* science course that examines the relationship between matter and energy and how they interact. This course will have a strong emphasis in the mathematics of physics. Students explore physics concepts through an inquiry approach. Embedded standards for Inquiry, Technology & Engineering, and Mathematics are taught in the context of the content standards for Mechanics, Thermodynamics, Waves and Sound, Light and Optics, Electricity and Magnetism and Atomic & Nuclear Science.

## **ADVANCED PLACEMENT SCIENCE**

**(These courses may only be available at certain schools, virtually, or not at all)**

### **AP-Biology - G03H10 1 credit** Recommended prerequisites: Biology I and Chemistry I

*Course Description:* The AP Biology course is designed to enable you to develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. The result will be readiness for the study of advanced topics in subsequent college courses. The AP Biology course is equivalent to a **two-semester college introductory biology course** and has been endorsed enthusiastically by higher education officials.

### **AP-Chemistry - G03H16 1 credit Recommended prerequisites:** Chemistry I, Chemistry II,

*Course Description:* The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. This course is taken with the idea in mind that students will take the AP Exam to receive college credit or placement at the student's college of choice. For some students, this course enables them to undertake, in their first year, second-year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is a prerequisite. For other students, the AP Chemistry course fulfills the laboratory science requirement and frees time for other courses.

## LANGUAGE ARTS

Four (4) credits in English are required for graduation: (English I, English II, English III, English IV)

**Tier III ELA Intervention – G02H19** Prerequisite: Determined by school data team.

*Course Description:* Students may earn an elective credit in this course designed to improve students' decoding, fluency, vocabulary, reading comprehension, and writing skills through individualized learning pathways. Students may qualify for this course based on achievement data, universal screening results, and/or reading fluency or writing test results.

**English I- G01H09 1 credit**

*Course Description:* This course begins with a grammar review emphasizing mechanics and usage. It addresses four strands of literacy: Reading, both literary and informational texts, writing, including research, Listening and Speaking, and Language. Students read a variety of books, fiction and nonfiction, short stories, poetry, drama, literary nonfiction and informational texts. Writing involves the modes of narrative, informative/explanatory, and argument with an emphasis on providing relevant and ample evidence to support a claim. Paragraph development will involve developing topic sentences into short paragraphs using formula writing. Students will be introduced to the elements of fiction in a short story unit that will prepare them to identify the same elements in subsequent works of literature. An informative research project will introduce the fundamentals of research. A poetry unit will introduce figurative language as well as other common poetic devices. Weekly vocabulary will emphasize identifying word parts and using context clues.

**English I Advanced- G01H09A 1 credit**

*Course Description:* English I Advanced is an option for students with qualifying scores on TN READY. This course teaches all topics of English I at a significantly faster pace, in greater depth, and with supplemental topics. Writing is heavily emphasized along with citing strong textual evidence from various sources. Students are expected to research topics and further develop strong writing skills. Due to the fast pace and in-depth coverage of material, students are expected to do additional work outside of the classroom for successful completion of this course.

**English II-G01H10 1 credit**

*Course Description:* This course is designed to develop students' proficiency in writing paragraphs and developing essays. It addresses four strands of literacy: Reading, both literary and informational texts, writing, including research, Listening and Speaking, and Language. Students complete a survey of World Literature, including a variety of books, fiction and nonfiction, short stories, poetry, drama, literary nonfiction and informational texts. Writing involves the modes of narrative, informative/explanatory, and argument with an emphasis on providing relevant and ample evidence to support a claim while using increasingly sophisticated structures. Appropriate vocabulary assignments will be included. Literature assignments will include a variety of short stories and novels will be read.

**English II Advanced- G01H10A 1 credit**

*Course Description:* English II Advanced is an option for students who successfully complete English I Advanced. This course teaches all topics of English II at a significantly faster pace, in greater depth, and with supplemental topics. Writing is heavily emphasized along with citing strong textual evidence from various sources. Due to the fast pace and in-depth coverage of material, students are expected to do additional work outside of the classroom for successful completion of this course.

### **English III – G01H11 1 credit**

*Course Description:* This course continues to develop skills in the four strands of Reading, Writing, Listening and Speaking, and Language through a survey of American Literature. Students are expected to read and analyze complex expository works of literary nonfiction, as well as a wide spectrum of various genres of American literature, in order to produce ample evidence to support inferences. Students will determine themes across multiple texts and express their thinking in writing and speaking supported by ample and relevant evidence from the texts. Writing involves the modes of narrative, informative/explanatory, and argument with an emphasis on the analysis of text. Newspapers may be used to stimulate an interest in current events.

### **English IV – G01H13 1 credit**

*Course Description:* English IV continues to develop and refine skills in Reading, Writing, Listening and Speaking, and Language through a survey of British Literature. Students are expected to read and analyze complex expository works of literary nonfiction, as well as a wide spectrum of various genres of British literature, in order to produce ample evidence to support inferences. Students will determine themes across multiple texts and express their thinking in writing and speaking supported by ample and relevant evidence from the texts. Writing will emphasize analysis of text, including research with appropriate citations. Periodicals and outside resources will be used.

### **Journalism – G03H15 1 credit** Prerequisite: Teacher Approval

*Course Description:* This class involves a selected number of students who will produce the school yearbook. Basic layout, body copy, and print design will be taught.

## **ADVANCED PLACEMENT ENGLISH**

**(These courses may only be available at certain schools, virtually, or not at all)**

### **AP-Language and Composition – G01H17 1 credit** (satisfies English III graduation requirement)

*Course Description:* This is an advanced writing course whose focus is the study of rhetoric and argumentation. Students will write several short to mid-length essays that pertain to specific points of rhetorical analysis, argumentation, and various modes of exposition (both in and out of class) and a longer length research paper. Readings of selected nonfiction essays and American works of fiction (novels, short stories) are also required. In addition, this course includes rigorous preparation for the AP English and Composition exam in May of each year. It is highly recommended that all students and their parents read the course description at [www.apcentral.collegeboard.com](http://www.apcentral.collegeboard.com) prior to registering. Students taking this course are required to sit for the AP exam.

### **AP-Literature and Composition – G01H18 1 credit** (satisfies English IV graduation requirement)

*Course Description:* This is a course designed to prepare students for the Advanced Placement Examination taken in May of each school year. Emphasis is placed on a rigorous examination of American and English literature and poetry. Students will write several analytical essays pertaining to drama, fiction, and poems. It is highly recommended that all students and parents read the course description at [www.apcentral.collegeboard.com](http://www.apcentral.collegeboard.com) prior to registration. Students taking this course are required to sit for the AP exam.

## WORLD LANGUAGES

Two (2) credits in the same foreign language are required for graduation

### **Spanish Level I – G24H04 1 credit**

*Course Description:* Through the introductory course in Spanish, students gain the ability to communicate in a wide variety of situations, from expressing likes and dislikes to ordering in a restaurant, all in Spanish. Vocabulary, grammar, and culture are woven together to help the novice language learner gain confidence. Technology is also used to enhance the learning process. **Spanish Level I Advanced (G24H04A)** is an option for students who display a strong interest in the language and display exceptional language skills

### **Spanish Level II – G24H05 1 credit** Prerequisite: Spanish I

*Course Description:* Spanish, in the second year, fulfills the basic foreign language requirements for students required by the Tennessee Diploma Project. Students continue to gain confidence in their Spanish-speaking abilities as they communicate in more real-life situations. Vocabulary, grammar, and culture Knowledge will be extended to support more advanced conversation. Students will participate in many different learning activities and benefit from the continued use of technology. **Spanish Level II Advanced (G24H05A)** is an option for students who have taken Spanish I Advanced display a strong interest in the language and display exceptional language skills.

### **Spanish Level III – G24H06 1 credit** Prerequisites: Spanish I and II

*Course Description:* This course focuses primarily on conversational Spanish and is for learners who want a more rigorous immersion in the language, along with exposure to more vocabulary and attention to even finer details of grammar. Students will develop appreciation of culture through the study of literature, the arts, and current events in the Hispanic world. Students should expect to express themselves in the target language. Use of technology will enhance the learning process. In addition, students will do independent research projects on topics of their choice.

## ADVANCED PLACEMENT WORLD LANGUAGE

(These courses may only be available at certain schools, virtually, or not at all)

### **AP Spanish Language and Culture- G24H08 1 credit** Prerequisites: Spanish I and II

*Course Description:* The AP Spanish Language and Culture course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP Spanish Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The AP Spanish Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).



## FINE ARTS

One (1) credit in a Fine Art is required for graduation.

### **Visual Art I – G05H08 1 credit**

*Course Description:* This course enables students to explore one or several art forms (e.g., drawing, painting, two- and three-dimensional design, and sculpture) and to create individual works of art. Initial courses emphasize observations, interpretation of the visual environment, visual communication, imagination, and symbolism. Courses cover the language, materials, media, and processes of a particular art form and the design elements used. Advanced courses encourage students to refine their skills while also developing their own artistic styles following and breaking from traditional conventions. Courses may also include the study of major artists, art movements, and styles.

### **Visual Art II – G05H09 1 credit** Prerequisite: Art I or teacher approval

*Course Description:* Visual Art II enables students to explore one or several art forms (e.g., drawing, painting, two- and three-dimensional design, and sculpture) and to create individual works of art. Initial courses emphasize observations, interpretation of the visual environment, visual communication, imagination, and symbolism. Courses cover the language, materials, media, and processes of a particular art form and the design elements used. Courses may also include the study of major artists, art movements, and styles

### **Visual Art III – G04H10 1 credit** Prerequisite: Art I and II or Teacher Approval

*Course Description:* The Art III course further expands the student's knowledge and understanding of various art media and styles. The media and subject matter are selected by the teacher and are determined by the development and experience of each group of students. Students create individual projects and present them to the class at selected intervals. Emphasis is placed on the critical and appreciative aspects of the art experience.

### **Concert Band I—G05H85 1 credit**

*Course Description:* Courses are designed to promote students' technique for playing brass, woodwind, and percussion instruments and cover a variety of band literature styles, primarily for concert performances and include experiences in creating and responding to music. *Codes for Concert Band II, III, and IV are G05H86, G05H87, and G05H88, respectively.*

### **General Band I -- G05H81 1 credit**

*Course Description:* Courses help students develop techniques for playing brass, woodwind, and percussion instruments and their ability to perform a variety of concert band literature styles. These courses may emphasize rehearsal and performance experiences in a range of styles (e.g., concert, marching, orchestral, and modern) and include experiences in creating and responding to music. *Codes for General Band II, III, and IV are G05H82, G05H83, G05H84, respectively.*

### **Chorus I—G05HA1 1 credit**

*Course Description:* Courses develop students' vocal skills within the context of a large choral ensemble in which they perform a variety of styles of repertoire. These courses are designed to develop students' vocal techniques and their ability to sing parts and include experiences in creating and responding to music. *Codes for Chorus II, III, and IV are G05HA2, G05HA3, and G05HA4, respectively.*

### **Class Piano I—G05HA5 1 credit**

*Course Description:* Courses provide students with an introduction to, and refine the fundamentals of, music and keyboard including literature and techniques such as scales, chords, and melodic lines and may offer instruction in more advanced techniques. Formal and informal performances are typically included as well as experiences in creating and responding to music. *Codes for Class Piano II, III, and IV are G05HA6, G05HA7, and G05HA8, respectively.*

### **Guitar I—G05HA9 1 credit**

*Course Description:* Courses provide students with an introduction to, and refine the fundamentals of, music and guitar literature and techniques, such as strumming and chords and may offer instruction in more advanced techniques. These courses may include bass, ukulele and other plucked string instruments. Formal and informal performances are typically included as well as experiences in creating and responding to music. *Codes for Guitar II, III, and IV are G05HB0, G05HB1, and G05HB2, respectively.*

### **Theatre Arts I – G05H16 1 credit**

*Course Description:* Theater Arts I helps students experience and develop skill in one or more aspects of theatrical production. Introductory courses provide an overview of theatrical elements including acting, set design, stage management, directing, playwriting, and production. Advanced courses concentrate on extending and refining dramatic techniques, expanding students' exposure to different types of theatrical styles, genres, and traditions, and increasing their participation in public productions. *Codes for Theatre Arts II, III, and IV are G05H17, G05H18, and G05H19, respectively.*

### **AP 2-D Art and Design—G05H29 1 credit** Prerequisite: Art 1, 2, and 3

*Course Description:* AP 2-D Art and Design courses are designed for students with a professional or academic interest in two-dimensional art. These courses focus on a variety of concepts and approaches in drawing and 2-D design, enabling students to demonstrate a range of abilities and versatility with media, technique, problem solving, and scope. Such conceptual variety can be demonstrated using one or several media. Students refine their skills and create artistic works to submit via a portfolio to the College Board for evaluation.

### **Music Theory—G05H44 1 credit**

*Course Description:* This course provides students with an understanding of the fundamentals of music and includes the following topics: composition, arranging, analysis aural development, and sight reading.

## MILITARY SCIENCE

**NOTE: Two credits in AFROTC satisfy the following graduation requirements: 1 credit of Lifetime Wellness and ½ credit of Physical Education. Three credits in AFROTC satisfy the following graduation requirements: ½ credit of Personal Finance and ½ credit of U.S. Government and Civics.**

**AFROTC I G08H04 1 credit** Prerequisite: none.

*Course Description:* Provides basic training in leadership tenets, physical fitness and health, drill and ceremonies, marksmanship, and military organization. Cadets are expected to develop certain positive attitudes, values, and leadership qualities from the instruction and the leadership provided by the instructors. This course emphasizes drills and ceremonies and lays the foundation for the grade level to follow. Students will be required to wear proper JROTC acquired uniforms periodically.

**AFROTC II G08H05 1 credit** Prerequisite: AFROTC I.

*Course Description:* Provides basic training in leadership tenets, physical fitness and health, drill and ceremonies, marksmanship, and military organization. Cadets are expected to develop certain positive attitudes, values, and leadership qualities from the instruction and the leadership provided by the instructors. This course emphasizes drills and ceremonies and lays the foundation for the grade level to follow. Students will be required to wear proper JROTC acquired uniforms periodically.

**AFROTC III G08H06 1 credit** Prerequisite: AFROTC I and II.

*Course Description:* This course builds on the foundations laid in JAFROTC I and II. It explores each subject in greater detail and emphasizes weapons training and marksmanship. Leadership roles are assigned to second year cadets. Students will be required to wear proper R.O.T.C. uniforms periodically.

\*AFROTC IV (G08H07), V (G08H08), and VI (G08H09) are also available, with I, II, and III as prerequisites. All are one credit each.

**Preparing for the ACT, College and Career G25H00 1/2 credit**

*Course Description:* This course is designed to provide students with skills and strategies for greater success on the ACT test in the areas of mathematics, reading, English, and Science. The course is open to juniors.

## OTHER REQUIREMENTS FOR GRADUATION

**Lifetime Wellness - G08H02 1 credit**

*Course Description:* The content of the course includes seven standards: Disease Prevention and Control, Nutrition, Substance Use and Abuse, Mental/Emotional/Social Health, Sexuality and Family Life, Safety and First Aid and Personal Fitness. Each content area is addressed in a classroom and/or physical activity setting. Personal fitness and nutrition should be emphasized and integrated throughout the course. Students are provided opportunities to explore how content areas are interrelated. Students acquire knowledge and skills necessary to make informed decisions regarding their health and well-being throughout their lifetime.

**Personal Finance-G04H36 1/2 credit (may also be taught as CTE course C29H11)**

*Course Description:* Personal Finance is a course designed to help students understand the impact of individual choices on occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets; Simulate use of checking and saving accounts; Demonstrate knowledge of finance, debt, and credit management; And evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions.

**Physical Education I G08H00 1/2 credit**

*Course Description:* Physical Education is an academic subject providing the opportunity for students to learn knowledge and skills needed to establish and maintain physically active lifestyles throughout childhood and adolescence and into adulthood. Instruction in a variety of motor skills designed to enhance child and adolescent development. The course emphasizes fitness education and assessment that allows for understanding and improvement of physical well-being, development of cognitive concepts related to motor skills and fitness, opportunities to improve social and cooperative skills, as well as opportunities to increase the value placed on physical activity for health, enjoyment, self-expression, and confidence. This ½ credit requirement may be satisfied by several different options, including two credits in AFROTC, interscholastic athletics, etc. Schools may offer variations of Physical Education, including Team Games, Strength and Conditioning, Table Games, and Interscholastic Athletics.

## EARLY POSTSECONDARY OPPORTUNITIES

**District Collaborative with Austin Peay State University:** Students can enroll in the APSU District Collaborative beginning in the summer after the 10<sup>th</sup> grade school year. Students can obtain up to sixty (60) hours of college credit and their Associates Degree, while satisfying the requirements for a Tennessee High School diploma. Students attend classes in the morning and then return to their high school for the afternoon. This affords them the opportunity to continue to participate in co-curricular or extracurricular activities. Students must meet the admission requirements for Austin Peay State in order to enroll in the collaborative and must have a qualifying subscore of 19 on both the English and Math on the ACT and maintain a 3.0 high school GPA. For more information about the APSU District Collaborative and information about the Dual Enrollment grant, please see your school counselor.

**Dual Enrollment with Volunteer State Community College:** Juniors and seniors can access Dual Enrollment courses through Volunteer State at their school or by an online platform. Students must meet the enrollment criteria for Volunteer State. This affords students the opportunity to earn college credit while satisfying the requirements for a Tennessee high school diploma. For more information about dual enrollment through Volunteer State and information about the Dual Enrollment grant, please see your school counselor.

## **Career and Technical Education**

The purpose of Career and Technical Education is to prepare students for careers and post-secondary opportunities that lead to high paying, high demand jobs. CTE paths may lead a student to industry certifications, technical schools, community colleges, or universities.

Students who do not choose an academic focus must complete a Career and Technical Education (CTE) program of study. A program of study is defined as three sequential classes in a specified CTE career cluster. Robertson County offers fourteen of the sixteen career clusters recognized in Tennessee. Programs not offered at smaller schools can be taken at the Springfield Career Technical Center (SHS CTC) during third block. Students enrolled in some programs that articulate to a technical school can dually enroll at Tennessee College of Applied Technology (TCAT). Students in programs that more closely align with Volunteer State or Universities may participate in testing for dual credit.

### **Agriculture, Food and Natural Resources**

#### **Agriscience – C18H19: ERHS, GHS, JBHS, SHS, WHHHS 1 credit**

*Course Description:* Agriscience is an introductory laboratory science course that prepares students for biology, subsequent science and agriculture courses, and postsecondary study. This course helps students understand the important role that agricultural science and technology serves in the 21st century. In addition, it serves as the first course for all programs of study in the Agriculture, Food and Natural Resources Cluster.

#### **Small Animal Science—C18H20- ERHS, GHS, JBHS, SHS, WHHHS 1 credit**

*Course Description:* Small Animal Science is an applied course in animal science and care for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers anatomy and physiological systems of different groups of small animals, as well as careers, leadership, and the history of the industry.

#### **Large Animal Science—C18H27 – ERHS, GHS, JBHS, SHS, WHHHS 1 credit**

*Course Description:* Large Animal Science is an applied course in veterinary and animal science for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers anatomy and physiological systems of different groups of large animals, as well as careers, leadership, and history of the industry.

#### **Veterinary Science—C18H21 -offered at ERHS, JBHS, SHS and WHHHS 1 credit**

*Course Description:* Veterinary Science is an advanced course in animal science and care for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers principles of health and disease, basic animal care and nursing, clinical and laboratory procedures, and additional industry-related career and leadership knowledge and skills.

#### **Principles of Agricultural Mechanics—C18H12 @ ERHS, GHS, JBHS 1 credit**

*Course Description:* Principles of Agricultural Mechanics is a course introducing students to basic skills and knowledge in construction and land management for both rural and urban environments. This course covers topics including project management, basic engine and motor mechanics, land surveying, irrigation and drainage, agricultural structures, and basic metalworking techniques.

**Agriculture Power and Equipment—C18H13 @GHS, JBHS 1 credit**

*Course Description:* Agricultural Power and Equipment is an applied-knowledge course in agricultural engineering with special emphasis on laboratory activities involving small engines, tractors, and agricultural equipment. The standards in this course address navigation, maintenance, repair, and overhaul of electrical motors, hydraulic systems, and fuel powered engines as well as exploration of a wide range of careers in agricultural mechanics.

**Agricultural Fabrication and Biosystems Engineering—C18H22 @ ERHS 1 credit**

*Course Description:* Agricultural and Biosystems Engineering is a capstone course that prepares students for further study or careers in engineering, environmental science, agricultural design and research, and agricultural mechanics. Special emphasis is given to the many modern applications of Geographic Information Systems (GIS) and Global Positioning Systems (GPS) to achieve various agribusiness goals.

**Greenhouse Management—C18H17 @ ERHS, JBHS, SHS 1 credit**

*Course Description:* Greenhouse Management is an applied-knowledge course designed to prepare students to manage greenhouse operations. This course covers principles of greenhouse structures, plant health and growth, growing media, greenhouse crop selection and propagation, and management techniques. It provides students with the technical knowledge and skills needed to prepare for further education and careers in horticulture production. Greenhouse Management is a dual credit course with statewide articulation.

**Landscaping and Turf Science—C18H17 @ ERHS, JBHS 1 credit**

*Course Description:* Landscaping and Turf Science is an applied-knowledge course designed to provide challenging academic standards and relevant technical knowledge and skills needed for further education and careers in landscape design, maintenance, and turf management. Content includes site analysis and planning, principles of design, and plant selection and care techniques.

**Principles of Plant Science and Hydroculture – C18H30 @ JBHS 1 credit**

*Course Description:* Principles of Plant Science and Hydroculture focuses on essential knowledge and skills related to the science of plant growth. This course covers principles of plant health, growth, reproduction, and biotechnology, as well as fundamental principles of hydroponics and aquaponics. Upon completion of this course, proficient students will be prepared for more advanced coursework in horticulture science.

**Food Science and Safety C18H26 @ ERHS 1 credit**

*Course Description:* Food Science and Safety is an applied-knowledge course designed for students interested in careers in food science. The course covers fundamental principles of food science, food safety and sanitation, foodborne pathogens, and food-related standards and regulations. Upon completion of this course, students will be versed in the technical knowledge and skills necessary for further education and careers in food science.

**Advanced Food Science-C18H24 @ ERHS 1 credit**

*Course Description:* This course is an applied course designed to prepare students for further education and careers in food science and technology. This course covers advanced principles of food science, characteristics and properties of food products, processing and grading techniques and skills, and food labeling and packaging principles. Upon completion of this course, proficient students will be able to pursue advanced training in food science at a postsecondary institution.

## **Architecture and Construction**

### **Fundamentals of Construction—C17H15 @ SHS CTC 1 credit**

*Course Description:* Fundamentals of Construction is a foundational course in the Architecture & Construction cluster covering essential knowledge, skills, and concepts required for careers in construction. Upon completion of this course, proficient students will be able to describe various construction fields and outline the steps necessary to advance in specific construction careers. Students will be able to employ tools safely and interpret construction drawings to complete projects demonstrating proper measurement and application of mathematical concepts.

### **Residential and Commercial Construction I— C17H24 @ SHS CTC 1 credit**

*Course Description:* Residential & Commercial Construction I is the second course in the *Residential & Commercial Construction* program of study intended to prepare students for careers in construction by developing an understanding of the different phases of a construction project from start to finish. Upon completion of this course, proficient students will be able to demonstrate knowledge and skill in the earlier phases of building construction, including site layout, foundation systems, concrete, framing systems, and electrical systems. Students will be able to perform concrete work; frame walls, ceilings, and floors of a structure; and install proper wiring while safely employing tools and interpreting construction drawings to complete projects. Emphasis is placed on demonstrating proper measurement and application of mathematical concepts.

### **Residential and Commercial Construction II - C17H25 @ SHS CTC 1 credit**

*Course Description:* Residential & Commercial Construction II is the third course in the *Residential & Commercial Construction* program of study intended to prepare students for careers in construction by developing an understanding of the different phases of a construction project from start to finish. Upon completion of this course, proficient students will be able to demonstrate knowledge and skill in the later phases of building construction including roofing systems, exterior finishing, stair framing systems, masonry systems, and plumbing systems. Students will be able to perform masonry work; frame roofs; install shingles on roofs; apply exterior finishes; and install piping for plumbing systems while safely employing tools and interpreting construction drawings to complete projects.

## **Arts, Audio/Visual Technology & Communication**

### **Foundations of Fashion Design—C11H09 @ GHS, SHS 1 credit**

*Course Description:* Foundations of Fashion Design is an introductory course designed to expose students to the world of fashion. Areas of study include fashion fundamentals, principles and elements of design; career options and preparation; product selection and maintenance; and consumer strategies.

### **Fashion Design—C11H10 @ GHS, SHS 1 credit**

*Course Description:* Fashion Design is an applied-knowledge course intended to prepare students to pursue careers in the fashion industry. Building on the knowledge acquired in Foundations of Fashion Design, this course places special emphasis on apparel manufacturing and merchandising, marketing applications, product and service management, and the creation of an original fashion collection. In addition, students will explore trends in fashion design and engage with industry-specific technologies used to produce a variety of fabrics, garments, and accessories.

### **Advanced Fashion Design—C11H11 @ GHS, SHS 1 credit**

*Course Description:* Advanced Fashion Design is the capstone course in the Fashion Design program of study. This course is designed to prepare students for further education and careers in the fashion industry. Through exposure to crucial business activities such as project management and product



promotion, students will acquire advanced skills related to business professionalism, ethics, policies, and communication in the fashion industry.

### **A/V Production I—C11H01 @ GHS 1 credit**

**Course Description:** This is a foundational course for students interested in A/V (audio/visual) production occupations. Upon completion of this course, proficient students will be able to explain and complete the phases of the production process including pre-production, production, and post-production. Students will establish basic skills in operating cameras, basic audio equipment, and other production equipment. Standards in this course include career exploration, an overview of the history and evolution of A/V production, and legal issues affecting A/V production. In addition, students will begin compiling artifacts for inclusion in a portfolio, which they will carry with them throughout the full sequence of courses in this program of study.

### **A/V Production II—C11H02 @GHS 1 credit**

**Course Description:** Building on knowledge acquired in A/V I, this course advances technical skills utilizing industry equipment related to lighting and audio, and it places special emphasis on the research and technical writing involved in planning productions. Upon completion of this course, proficient students will be able to plan, capture, and edit research-based productions of increasing complexity, individually and through collaboration in teams. In addition to more robust career preparation, standards in this course include an investigation of concerns affecting A/V production businesses, such as ethical and legal issues, technology, funding, and the organization of professional roles in various industries.

### **A/V Production III—C11H03 @GHS 1 credit**

**Course Description:** Students in this course will apply knowledge and skills from previous courses in this program of study to create productions both individually and in teams. Students will use industry equipment and technology to complete all phases of the production process, including planning, coordinating, capturing, editing, and distributing productions. Standards in this course include policies and regulations, independent and collaborative productions, distribution of media, and the production of live events.

### **Digital Arts and Design I—C11H04 @ SHS CTC, WHHHS 1 credit**

**Course Description:** Digital Arts and Design I is a course that provides a foundation in visual communication concepts and design strategies. Course content is designed to foster skills and understanding that are essential in modern digital graphics, motion graphics, publishing, Web, film/video, photography, and animation graphic industries. Focus will be on developing understanding of key design concepts and strategies, along with design challenges that translate into creative communication solutions which accurately and effectively reach targeted audiences. Along with study of design principles, conceptualization processes and techniques, students will explore various applications of design through extensive study of typography, style, composition, visual elements, color, creative technical software and various problem-solving tasks, that encourages higher order thinking.

### **Digital Arts and Design II—C11H05 @ SHS CTC, WHHHS 1 credit**

**Course Description:** Digital Arts and Design II is a course that builds on the foundational core elements of visual communication concepts and design strategies, learned in (Digital Arts and Design I) Course content is designed to reinforce skills and support understanding that are essential in modern digital graphics, motion graphics, publishing, Web, film/video, photography, and animation graphic industries. Focus will be on developing understanding of key design concepts and strategies, along with design challenges that translate into creative communication solutions which accurately and effectively communicate. Along with continued study of design principles, conceptualization processes and techniques, students will gain mastery of various applications of design through continued study of

typography, style, composition, visual elements, color, creative technical software and more focused problem-solving tasks, that encourages higher order thinking.

### **Digital Arts and Design III—C11H06 @ SHS CTC, WHHHS 1 credit**

*Course Description:* Digital Arts and Design III involves the confluence of technologies, visual arts and creative practices that have changed dramatically over the past several years. Increasingly, the design studio functions as a dynamic and vital space for learning, exploring, and innovation. Negotiating complex relationships, developing communication strategies that leverage new technologies and provide robust opportunities for the application of knowledge, skills, and critical thinking associated with an array of contemporary creative and studio practices is the new industry standard. Course content is selected to broaden the foundation of design concepts and understanding related to modern communication design. This course will foster advanced integrated skills that are essential in digital graphics, motion graphics, publishing, Web, film/video, photography, and animation graphic industries. Students will be exposed to real world design challenges in a laboratory facility through projects that simulate industry objectives.

### **Applied Arts Practicum—C11H07@WHHHS 1 credit**

*Course Description:* The Applied Arts Practicum is a capstone course intended to provide students with the opportunity to apply the skills and knowledge learned in previous Arts, A/V Technology, & Communications courses within a professional, working environment. In addition to developing an understanding of the professional and ethical issues encountered by professionals in these careers, students learn to refine their skills in problem solving, research, communication, teamwork, and project management through the completion of a course-long project. Upon completion of the practicum, proficient students will be prepared to pursue postsecondary study in arts, A/V technology, or communications programs; or seek additional training or employment with the aid of the portfolio, which documents the student's work completed throughout the program of study.

## **Business Management and Administration**

### **Intro to Business and Marketing—C12H26 @ERHS, GHS, SHS, WHHHS 1 credit**

*Course Description:* Business Principles is a core course in which students are introduced to all aspects of business: the domestic and international economies, financial principles, management strategies, administrative and information systems, ethics, and organizational and professional leadership. Students will analyze the elements of the business environment and focus on attitudinal and problem-solving skills inherent to success.

### **Computer Applications—C12X00 – offered at all schools 1 credit**

*Course Description:* This course is designed to develop computer technology skills. Students will use a variety of computer software and hardware tools and features of an electronic information network. Students will explore the social, business, and ethical issues of using computer technology. The students will develop skills that will assist them with efficient production of word processing documents, spreadsheets, databases, and presentations.

### **Business Management – C12H17 - @ GHS, IA, JBHS, SHS, WHHHS 1 credit**

*Course Description:* Students in Business Management will develop a foundation in the many activities, problems, and decisions that are intrinsic to the management of a successful business, as well as an appreciation for the importance of these responsibilities. Areas to be examined include business organization, ethical and legal responsibilities, communication, decision-making, personnel, safety, professional development, and related careers.

### **Business Communication – C12H16 - @ offered at all schools 1 credit**

*Course Description:* Business Communications is a course designed to develop students' effective oral and electronic business communications skills. This course develops skills in multiple methods of communications, including social media, as well as electronic publishing, design, layout, composition, and video conferencing. Upon completion of this course, proficient students will be able to demonstrate successful styles and methods for professional business communications using the proper tools to deliver effective publications and presentations.

### **Advanced Computer Applications—C12H25 – offered at all schools 1 credit**

*Course Description:* This is a capstone course in which students will learn necessary skills in problem solving using current and emerging integrated technology to include a variety of input technologies in the production of professional quality business documents and presentations. The course focuses on student choice, accountability and performance. Students increase their employability by working toward the attainment of high-level skills in the areas of integrated software applications, communication skills, ethical issues, human relations, leadership, self-management, and workplace management. Students may choose areas of specialization and achieve industry certification in areas such as word processing, spreadsheet applications, multimedia presentations, schedule and contact management, etc.

## **Education and Training**

### **Teaching as a Profession I—C32H02 – @ GHS, ERHS Online 1 credit**

*Course Description:* Teaching as a Profession I (TAP I) is an applied-knowledge course for students interested in learning more about becoming a school counselor, teacher, librarian, or speech-language pathologist. This course covers the components of instruction, teaching strategies, types of assessments, student learning, special populations, and educational technology. Students in this course will conduct observations of educators at work and create artifacts for a course portfolio.

### **Teaching as a Profession II—C32H02 – @ GHS, ERHS Online 1 credit**

*Course Description:* Teaching as a Profession II (TAP II) is an applied knowledge course for students interested in learning more about becoming a teacher, school counselor, librarian, or speech-language pathologist. This course covers classroom management, concepts of higher order thinking, differentiating instruction, and strategies of effective classroom planning. Students in this course will demonstrate their skills in laboratory settings while building a course portfolio of work.

### **Teaching as a Profession Practicum - C32H03 – @ GHS, ERHS Online 1 credit**

*Course Description:* Teaching as a Profession III (TAP III) is a capstone course in the Education and Training Cluster for students interested in learning more about becoming a teacher, school counselor, librarian, or speech-language pathologist. The course covers classroom professionalism, ethics, policies, communications, and career requirements in education fields. In addition, students will complete an internship and continue to create artifacts for their student portfolios.

### **Early Childhood Careers I—C32H06 - @ WHHHS 1 credit**

*Course Description:* Early Childhood Education Careers I is a foundational course in the Human Services career cluster. Careers in early childhood education include but are not limited to childcare providers, nannies, and preschool teachers. This course studies the foundation of childhood development services, careers, provider responsibilities and aptitudes, and fundamentals of child development. Students will create a course portfolio.

### **Early Childhood Careers II--C32H07 - @ WHHHS 1 credit**

*Course Description:* Early Childhood Education Careers II is an applied knowledge course for students interested in learning more about becoming an early childhood teacher, nanny, or childcare provider. This

course covers the components of curriculum planning, learning, screening and assessing, special populations, and educational technology. Students in this course will observe educators in action, practice specific skills, and add personal work products to a course portfolio.

### **Early Childhood Careers III—C32H08 - @ WHHHS 1 credit**

*Course Description:* Early Childhood Education Careers III is an applied knowledge course for students interested in learning more about becoming an early childhood teacher, nanny, or childcare provider. This course covers the components of the learning environment, planning age appropriate activities, using activities for learning, and developing communication skills. Students in this course will participate in a work-based learning component of instruction and add work products to a course portfolio.

## **Finance**

### **Accounting I—C29H00 – GHS, SHS, WHHHS 1 credit**

*Course Description:* Accounting I introduces concepts and principles based on a double-entry system of maintaining the electronic and manual financial records for a sole proprietorship, a partnership, and a corporation. It includes analyzing business transactions, journalizing, posting and preparing worksheets and financial statements.

### **Accounting II – C29H01 – @ SHS CTC 1 credit**

*Course Description:* Accounting II is an advanced study of concepts, principles and techniques that build on the competencies acquired in Accounting I used in keeping the electronic and manual financial records of a sole proprietorship, a partnership and a corporation. Departmental, management, cost, and not-for-profit accounting systems are explored. This course will apply the theory and practices developed in Accounting I.

### **Personal Finance—C12H24 – offered at all schools 1 credit**

*Course Description:* Personal Finance is a foundational course designed to inform students how individual choices directly influence occupational goals, future earning potential, and long-term financial well-being. The standards in this course cover decision-making skills related to goal setting, earning potential, budgeting, saving, borrowing, managing risk, and investing. The course helps students meet the growing complexities of personal financial management and consumer decision making.

## **Health Science Education**

### **Health Science Education—C14H14 – ERHS, GHS, JBHS, SHS, WHHHS 1 credit**

*Course Description:* This course is an introduction to broad standards that serve as a foundation for Health Care Occupations and functions across health services. Units included are academics in health care communications systems, legal responsibilities, ethics, teamwork, and safety practices.

### **Diagnostic Medicine—C14H12 –@ JBHS, SHS, WHHHS 1 credit**

*Course Description:* Diagnostic Medicine creates a picture of an individual's health status at a single point in time. This could include following careers and career areas: audiologist, cardiology, imaging, medical laboratory, radiography, nuclear medicine, stereotactic radiosurgery, cytotechnology, clinical laboratory technician, pathologists, medical physician, and histotechnologist.

### **Medical Therapeutics—C14H15 – ERHS, GHS, JBHS, SHS, WHHHS 1 credit**

*Course Description:* 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. The student will incorporate communication, goal setting, and information collection skills to be successful in the workplace.

**Anatomy and Physiology—C14H09/G03H31 @ WHHHS, SHS, GHS, JBHS, ERHS 1 credit**

*Course Description:* Health Science Education Anatomy and Physiology is a course in which students will examine human anatomy and physical functions. They will analyze descriptive results of abnormal physiology and evaluate clinical consequences. A workable knowledge of medical terminology will be demonstrated.

**Nursing Education—C14H16 – @ ERHS, JBHS, SHS CTC 1 credit**

*Course Description:* Nursing Education consists of 18 units of study dealing with direct bedside nursing care. Clinical experience will consist of supervised practice in the nursing home, as well as demonstrations in the classroom. Students can be registered by the Tennessee Department of Health—after the completion of the course, 100 hours clinical and theory, passing a state test (both written and skills)—and will be job ready. Students may complete a clinical internship following this course. Jobs include registered nurse, clinical nurse specialist, nurse practitioner, nurse midwife, nurse anesthetist, forensic nurse, and other occupations.

**Clinical Internship – C14H11 - @ SHS, WHHHS, GHS 1 credit**

*Course Description:* Clinical Internship is a capstone course and work-based learning experience designed to provide students with real-world application of skills and knowledge obtained in a pre-requisite Health Science course. Upon completion of this course, proficient students will be able to pursue certification in the pre-requisite course of Cardiovascular Services or Pharmacological Science Once they have graduated and reached 18 years of age. Prior to beginning work at a clinical site, students must be certified in Basic Life Support (BLS) Cardiopulmonary Resuscitation (CPR), and deemed competent in basic first aid, body mechanics, Standard Precaution guidelines, and confidentiality. Business Management & Administration concentrators may also take this course as part of a career practicum/work-based learning placement within the Health Services Administration program of study.

**Cardiovascular Services – C14H18 - @ JBHS, WHHHS (in rotation with Clinical Internship) 1 credit**

*Course Description:* Cardiovascular Services is an applied course in the Diagnostic Services program of study intended to prepare students with an understanding of the roles and responsibilities of those seeking employment in the cardiovascular field of healthcare. Upon completion of this course, proficient students will have a thorough understanding of the anatomy and physiology of the heart and be knowledgeable about both invasive and non-invasive cardiovascular procedures. Students will incorporate communication, goal setting, and information collection skills to be successful in the workplace. Students who complete a Clinical Internship in addition to this course will be eligible upon graduation to sit for Certified EKG Technician (CET).

**Emergency Medical Services – C14H13 - @ SHS 1 credit**

*Course Description:* Emergency Medical Services is a capstone course 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.

## **Hospitality and Tourism**

### **Culinary Arts I—C16H06 - @ SHS CTC 1 credit**

*Course Description:* Culinary Arts I is the first level of Culinary Arts and prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. Designed to introduce students to food preparation concepts, terminology and practices in the modern commercial kitchen, the content provides students the opportunity to acquire marketable skills by examining both the industry and its career opportunities and by developing food preparation and service and interpersonal skills. Fundamental techniques and skills are taught with an emphasis on safety, sanitation, and proper equipment operation and maintenance. Laboratory facilities and experiences, which simulate commercial food production and service operations, offer school-based learning opportunities.

### **Culinary Arts II—C16H07 – @ SHS CTC 1 credit**

*Course Description:* Culinary Arts II is the second level of Culinary Arts and prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. Content provides students the opportunity to acquire marketable skills by demonstrating the principles of safety and sanitation, food preparation skills, and teamwork to manage an environment conducive to quality food production and service operations. Laboratory facilities and experiences, which simulate commercial food production and service operations, offer school-based learning and work-based learning opportunities.

### **Culinary Arts III—C16H08 – @ SHS CTC 1 credit**

*Course Description:* Culinary Arts III is the third level of Culinary Arts, and it serves as a capstone course. It, too, prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. Content provides students the opportunity to apply the marketable culinary arts skills they have acquired by assuming increasingly responsible positions, including participation in a cooperative education experience.

### **Culinary Arts IV—C16H09--@SHS CTC 1 credit**

*Course Description:* Culinary Arts IV is the capstone course in the Culinary Arts program of study intended to prepare students for careers such as banquet cook, catering assistant, event planning assistant, and many other entry-level food and beverage industry career paths. Course content reinforces the components of commercial kitchen safety and sanitation, food presentation, bakeshop preparation skills, sustainability practices, professionalism, and business opportunities. Upon completion of this course, proficient students will have applied the full range of knowledge and skills acquired in this program of study toward the planning and catering of an event approved by the instructor. Artifacts will be created for inclusion in a portfolio, which will continue throughout the full sequence of courses. In addition to implementing the following standards, the course should include a suggested 30 hours spent in a commercial kitchen laboratory.

## **Human Services**

### **Introduction to Human Studies—C19H19 – @ GHS, JBHS, SHS, WHHHS 1 credit**

*Course Description:* Introduction to Human Studies is a foundational course for students interested in becoming a public advocate, social worker, dietician, nutritionist, counselor, or community volunteer. This course covers the history of counseling, career investigation, stress management, mental illness, communication, and the counseling process.

### **Lifespan Development—C19H17 – @ GHS, SHS 1 credit**

*Course Description:* Lifespan Development builds basic knowledge in human growth and development. The course standards include developmental theory, principles of growth, behavior of children from conception through adolescence, adult development and aging, and death and dying. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study.

### **Family Studies—C19H18 – @ GHS, JBHS, SHS 1 credit**

*Course Description:* Family Studies is an applied knowledge course that examines the diversity and evolving structure of the modern family. Course standards focus on the demographic, historical, and social changes of interpersonal relationships, as well as parenting, and the effect of stressors on the family. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study.

### **Nutrition Across the Lifespan—C19H15 - @ WHHHS 1 credit**

*Course Description:* Nutrition across the Life Span is for students interested in learning more about becoming a dietitian, nutritionist, counselor, or pursuing a variety of scientific, health, or culinary arts professions. This course covers human anatomy and physiological systems, nutrition requirements, as well as social, cultural, and other impacts on food preparation and integrity. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study.

### **Nutrition Science and Diet Therapy--C19H16 – JBHS, WHHHS 1 credit**

*Course Description:* Nutrition and Diet Therapy is an applied knowledge course in nutrition for students interested in the role of nutrition in health and disease. The course covers the development of a nutrition care plan as part of the overall health care process. Methods for analyzing the nutritional health of a community are explored. Finally, the relationship of diet and nutrition to specific diseases will be researched including the role of diet as a contributor to disease and its role in the prevention and treatment of disease. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study.

### **Cosmetology I--C19H12 – @ GHS, SHS CTC 1 credit**

*Course Description:* Principles of Cosmetology 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 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.

### **Cosmetology II—C19H14 – @ GHS, SHS CTC 1 credit**

*Course Description:* Design Principles of Cosmetology is the second level of cosmetology and prepares students for work-related skills and advancement into the Chemistry of Cosmetology course. Content provides students the opportunity 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 completion and acquisition of 300 hours, students are eligible to take the Tennessee Board of Cosmetology Shampoo examination for a Tennessee Shampoo Technician License.

### **Cosmetology III—C19H13 – @ GHS, SHS 1 credit**

*Course Description:* Chemistry of Cosmetology 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. Students completing this portion of the course of cosmetology will acquire the necessary hours to transfer to a post-secondary course of study to complete the hours needed to be eligible to take the Tennessee State Board of Cosmetology examination for the Tennessee Cosmetology License. Upon completion and acquisition of 300 hours, students are eligible to take the Tennessee State Board of Cosmetology Shampooing examination for a Shampoo Technician License.

## **Information Technology**

### **Principles of Computer Science C10H11 @ IA 1 credit**

*Course Description:* Computer Science Foundations (CSF) is a course intended to provide students with exposure to various information technology occupations and pathways such as Networking Systems, Coding, Web Design, and Cybersecurity. As a result, students will complete all core standards, as well as standards in two of four focus areas. Upon completion of this course, proficient students will be able to describe various information technology (IT) occupations and professional organizations. Moreover, they will be able to demonstrate logical thought processes and discuss the social, legal, and ethical issues encountered in the IT profession. Depending on the focus area, proficient students will also demonstrate an understanding of electronics and basic digital theory; project management and teamwork; client relations; causes and prevention of Internet security breaches; and writing styles appropriate for web publication. Upon completion of the CSF course, students will be prepared to make an informed decision about which Information Technology program of study to pursue.

### **Coding I C10H14 @ IA 1 credit**

*Course Description:* Coding 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.

### **Coding II C10H15 @ IA 1 credit**

*Course Description:* Coding II challenges students to develop advanced skills in problem analysis, construction of algorithms, and computer implementation of algorithms as they work on programming projects of increased complexity. In so doing, they develop key skills of discernment and judgment as they must choose from among many languages, development environments, and strategies for the program life cycle. Course content is reinforced through numerous short- and long-term programming projects, accomplished both individually and in small groups. These projects are meant to hone the discipline and logical thinking skills necessary to craft error-free syntax for the writing and testing of programs. Upon completion of this course, proficient students will demonstrate an understanding of object-oriented programming language using high-level languages such as FOCUS, Python, or SAS.



## **Law, Public Safety, Corrections & Security**

### **Criminal Justice I—C30H00 – @ SHS CTC 1 credit**

*Course Description:* This course serves as a comprehensive survey of how the law enforcement, legal, and correctional systems interact with each other in the United States. Current issues will be researched in the context of local, state, and federal laws. Investigative skills will be developed in the areas of drug use, incident documentation and basic crime scene investigation.

### **Criminal Justice II—C30H01 – @ SHS CTC 1 credit**

*Course Description:* Criminal Justice II is an integrated survey of the law and justice systems for students interested in pursuing careers in law enforcement and legal services. From initial crisis scenario management to arrest, transport, trial, and corrections, procedures and laws governing the application of justice in the United States are examined in detail, with special emphasis on the best practices and professional traits required of law enforcement and legal professionals.

### **Criminal Justice III – C30H02 - @ SHS CTC 1 credit**

*Course Description:* Criminal Justice III: Investigations is the final course designed to equip students with the knowledge and skills to be successful in the sciences of criminal investigations. Students will learn terminology and investigation skills related to the crime scene, aspects of criminal behavior, and applications of the scientific inquiry to solve crimes. By utilizing the scientific inquiry method, students will obtain and analyze evidence through simulated crime scenes and evaluation of case studies. Upon completion of this course, proficient students will be able to identify careers forensic science and criminology, summarize the laws that govern the application of forensic science, and draw key connections between the history of the forensic science system and the modern legal system.

## **Marketing**

### **Marketing and Management I – C31H00 - @ GHS, ERHS, SHS 1 credit**

*Course Description:* Marketing and Management I: Principles focuses on the study of marketing concepts and their practical applications. Students will examine the risks and challenges that marketers face to establish a competitive edge in the sale of products and services. Topics covered include foundational marketing functions such as promotion, distribution, and selling, as well as coverage of economics fundamentals, international marketing, and career development. Upon completion of this course, proficient students will understand the economic principles, the marketing mix, and product development and selling strategies.

### **Marketing and Management II – C31H01 - @ ERHS, SHS 1 credit**

*Course Description:* Marketing & Management II: Advanced Strategies is a study of marketing concepts and principles used in management. Students will examine the challenges, responsibilities, and risks managers face in today's workplace. Subject matter includes finance, business ownership, risk management, marketing information systems, purchasing, promotion, and human resource skills.

### **Entrepreneurship – C31H05- @ GHS, SHS 1 credit**

*Course Description:* Entrepreneurship is an applied knowledge course that begins with the discovery process of generating new business ideas. Students research local, national, and international social and economic trends and analyze the feasibility of their own proposed businesses, both from a market demand and revenue-producing standpoint. Based on their entrepreneurial endeavors, students will prepare, write, and revise a business plan. In preparation for the business plan, students will conduct market research,

study ownership structures, evaluate risks, examine startup costs, determine essential vendors, and identify sources of capital and financing options. Students will also draft, refine, and rehearse entrepreneurship pitches developed from their business plans to present during course intervals and to give final presentations at the conclusion of the course. Upon conclusion of this course, proficient students will be able to articulate, and defend, elements of a full business plan for a new business.

### **Science, Technology, Engineering, and Mathematics**

#### **Principles of Engineering and Technology – C21H04 @ SHS CTC, GHS, IA 1 credit**

*Course Description:* Principles of Engineering and Technology is a foundational course in the STEM cluster for students interested in learning more about careers in engineering and technology. This course covers basic skills required for engineering and technology fields of study. Upon completion of this course, proficient students can identify and explain the steps in the engineering design process. They can evaluate an existing engineering design, use fundamental sketching and engineering drawing techniques, complete simple design projects using the engineering design process, and effectively communicate design solutions to others.

#### **Engineering Design I - C21H05 @ SHS CTC, GHS, IA 1 credit**

*Course Description:* Engineering Design I is a fundamental course in the STEM cluster for students interested in developing their skills in preparation for careers in engineering and technology. The course covers essential knowledge, skills, and concepts required for postsecondary engineering and technology fields of study. Upon completion of this course, proficient students can describe various engineering disciplines, as well as admissions requirements for postsecondary engineering and engineering technology programs in Tennessee. They will also be able to identify simple and complex machines; calculate various ratios related to mechanisms; explain fundamental concepts related to energy; understand Ohm's Law; follow the steps in the engineering design process to complete a team project; and effectively communicate design solutions to others.

#### **Engineering Design II – C21H06 @ SHS CTC, GHS, IA 1 credit**

*Course Description:* Engineering Design II is an applied course in the STEM career cluster for students interested in further developing their skills as future engineers. This course covers knowledge, skills, and concepts required for postsecondary engineering and technology fields of study. Upon completion of this course, proficient students are able to explain the differences between scientists and engineers, understand the importance of ethical practices in engineering and technology, identify components of control systems, describe differences between laws related to fluid power systems, explain why material and mechanical properties are important to design, create simple free body diagrams, use measurement devices employed in engineering, conduct basic engineering economic analysis, follow the steps in the engineering design process to complete a team project, and effectively communicate design solutions to others.

#### **BioSTEM I - C21H07 - @ WHHHS 1 credit**

*Course Description:* BioSTEM I is a foundational course in the STEM cluster for students interested in learning more about careers in science, technology, engineering, and mathematics with emphasis in biotechnology. This course covers basic skills required for BioSTEM fields of study. Upon completion of this course, proficient students can identify and explain the steps in both the engineering design and the scientific inquiry process. Students conduct research to develop meaningful questions, define simple problem scenarios and scientific investigations, develop fundamental design solutions, conduct basic

mathematical modeling and data analysis, and effectively communicate solutions and scientific explanation to others.

### **BioSTEM II – C21H08 - @ WHHHS 1 credit**

*Course Description:* BioSTEM II is a project-based learning experience for students who wish to further explore the dynamic range of BioSTEM fields introduced in BioSTEM I. Building on the content and critical thinking frameworks of BioSTEM I, this course asks students to apply the scientific inquiry and engineering design processes to a course-long project selected by the instructor with the help of student input. Instructors design a project in one of the BioSTEM fields of medical laboratory science, research science, food science, forensic science or environmental science that reflects the interest of the class as a whole; the students then apply the steps of the scientific inquiry process throughout the course to ask questions, test hypotheses, model solutions, and communicate results. In some cases, instructors may be able to design hybrid projects that employ elements of several of the BioSTEM fields. Upon completion of this course, proficient students will have a thorough understanding of how scientists research problems and methodically apply BioSTEM knowledge and skills; and they will be able to present and defend a scientific explanation to comprehensive BioSTEM scenarios.

### **BioSTEM III – C21H09 – WHHHS 1 credit**

*Course Description:* BioSTEM III is an applied course in the STEM career cluster which allows students to work in groups to solve a problem or answer a scientific question drawn from real-world scenarios within their schools or communities. This course builds on BioSTEM I and BioSTEM II by applying scientific knowledge and skills to a team project. Upon completion of this course, proficient students will be able to effectively use skills such as project management, team communication, leadership, and decision making. They will also be able to effectively transfer the teamwork skills from the classroom to a work setting.

## **Transportation, Distribution and Logistics**

### **Maintenance and Light Repair I - C20H09 @ SHS CTC 1 credit**

*Course Description:* The Maintenance and Light Repair I (*MLR I*) course prepares students for entry into Maintenance and Light Repair II. Students explore career opportunities and requirements of a professional service technician. Content emphasizes beginning transportation service skills and workplace success skills. Students study safety, tools, equipment, shop operations, basic engine fundamentals, and basic technician skills.

### **Maintenance and Light Repair II - C20H10 @ SHS CTC 1 credit**

*Course Description:* The Maintenance and Light Repair II (*MLR II*) course prepares students for entry into *Maintenance and Light Repair III*. Students study automotive general electrical systems, starting and charging systems, batteries, lighting, and electrical accessories.

### **Maintenance and Light Repair III - C20H11 @ SHS CTC 1 credit**

*Course Description:* The *Maintenance and Light Repair III (MLR III)* course prepares students for entry into *Maintenance and Light Repair IV*. Students study and service suspension and steering systems and brake systems.

### **Maintenance and Light Repair IV - C20H12 @ SHS CTC 1 credit**

*Course Description:* The *Maintenance and Light Repair IV (MLR IV)* course prepares students for entry into the automotive workforce or into post-secondary training. Students study and service automotive

HVAC systems, engine performance systems, automatic and manual transmission/transaxle systems, and practice workplace soft skills. Upon completing all the *Maintenance and Light Repair* courses, students may test for the ASE Certified MLR Technician.

**Work Based Learning- C25H23 @ all high schools up to 4 credits**

*Course Description:* Work-based learning (WBL) is a proactive approach to bridging the gap between high school and high-demand, high-skill careers in Tennessee. Students build on classroom-based instruction to develop employability skills that prepare them for success in postsecondary education and future careers. Through experiences like internships, apprenticeships, and paid work experience, juniors and seniors may participate in this program with permission from instructors.

**Early Post-Secondary Opportunities in CTE**

**Tennessee College of Applied Technology at Nashville (Portland Campus)**

Junior and Senior students from **ERHS and WHHHS** may attend the Portland Campus of TCAT. Classes are offered from 7:30 – 9:30 a.m. Students then return to their home school to complete the school day. The Dual Enrollment grant will be used to pay for student classes. **Students are responsible for books, tools, and transportation.** Excellent attendance, discipline and academic history are required for admittance to these programs.

**Dual Enrollment Welding**

**Dual Enrollment Machining**

**Dual Enrollment Advanced Manufacturing**

**Dual Enrollment Computer Information Systems**

**Tennessee College of Applied Technology at Nashville (Springfield CTC).**

**Junior and Senior students from any high school in Robertson County** may take Dual Enrollment Welding at the CTC. **Students are responsible for books and tools.** Transportation will be provided for this program. This class can be taken both semesters.

**Dual Enrollment Welding**

**Dual Enrollment HVAC**

## University of Tennessee at Martin

Junior and Senior students from all schools may enroll in Dual Enrollment classes at UTM. These classes are presented 100% online. Classes are taught by UTM professors, and all work is submitted electronically. The Dual Enrollment grant can be used to pay for these classes. Students will be enrolled at UTM and will have a transcript generated. **The ACT requirement for admission is waived.** Applicants must have a 3.0 GPA. Speak with your counselor for detailed information. The following classes are aligned with our current CTE programs:

### UTM Agriculture

**Dual Enrollment Vet and Animal Science C18H01 = UTM ANS 260 Behavior of Farm and Companion Animals**

**Dual Enrollment Ag Business C18H03 = UTM AGECEC 110 Intro to Ag Business**

**Dual Enrollment Horticulture C18H05 = UTM PLSC 110 Intro to Plant and Soil Science**

### UTM Finance

**Dual Enrollment Financial Planning C12H04 = UTM FIN 160 Financial Planning**

## Dual Credit Testing at VSCC

Volunteer State Community College offers dual credit testing for students in various programs. Students who have met the high school course requirement may take the test for 30 dollars at VSCC. The chart below outlines the High School CTE courses that must be completed before taking dual credit tests.

<b>High School Course(s)</b>	<b>VSCC class with credit hours</b>
Health Science Courses (any 2-3)	AHC 115 Medical Terminology (3 Hours)
Early Childhood Edu. Careers I & II	ECED 2010 Safe, Healthy Learn Environ (3 hours)
Criminal Justice I & II	CRMJ 1010 Intro to Criminal Justice (3 hours)
Marketing and Management (any 2 courses)	MKT 110 Principles of Marketing (3 hours)

## Industry Certifications

**Adobe Certified Associate—Photoshop**—Completed in the Arts A/V Technology & Communications Program of Study within Digital Arts and Design III or Applied Arts Practicum courses at WHHHS.

**Adobe Certified Associate—Illustrator**—Completed in the Arts A/V Technology & Communications Program of Study within Digital Arts and Design III or Applied Arts Practicum courses at SHS and SHS CTC.

**Adult, Infant, and Child CPR/AED/First Aid**--Completed in the Education Program of Study within Early Childhood Educational Careers II Course.

**AMSA Food Safety & Science Certification**--Completed in the Agriculture Program of Study within the Advanced Food Science Course.

**Autodesk Inventor Certified User**—Completed in the STEM Program of Study within the Engineering Design II course.

**Biotechnician Assistant Credentialing Exam (BACE)**—Completed in the STEM Program of Study within the BioSTEM II course.

**BASF Plant Science Certification**—Completed in the Agriculture Program of Study within the Greenhouse Management course.

**Briggs and Stratton Master Service Technician**—Completed in the Agriculture Program of Study within the Agriculture Power and Equipment or Principles of Agriculture Mechanics course.

**CDA-Child Development Associate**—Completed upon obtaining hours through the Early Childhood Education Careers Program of Study.

**Certified Clinical Medical Assistant-CCMA**—Completed in the Health Science Program of Study within the Clinical Internship course.

**Certified EKG Technician**—Completed in the Health Science Program of Study within the Cardiovascular Services course.

**Certified Patient Care Technician-CPCT**—Completed in the Health Science Program of Study within the Clinical Internship Course (JBHS only)

**Commercial Applicators Certification-C03 Ornamental and Turf**—Completed in the Agricultural Program of Study within the Landscape and Turfgrass Management course.

**Elanco Fundamental of Animal Science Certification**—Completed in the Agricultural Program of Study within the Large Animal Science course.

**Elanco Veterinary Medical Application Certification**—Completed in the Agricultural Program of Study within the Veterinary Science course.

**Intuit QuickBooks Certified User**--Completed in the Finance Program of Study within the Accounting II course.

**MOS Excel Associate Certification**—Completed in the Business Management and Administration Program of Study within the Advanced Computer Applications course.

**MOS Word Associate Certification**—Completed in the Business Management and Administration Program of Study within the Advanced Computer Applications course.

**NC3 Snap-On Precision Measurement Instruments Certification**—Completed in the Transportation Program of Study at the completion of Maintenance and Light Repair IV.

**OSHA 10 General Industry**—Obtained in the Agricultural, Architecture and Construction, or STEM Programs of Study within Principles of Agriculture Mechanics, Residential Construction I, or Engineering Design I.

**ServeSafe Food Handler**--Obtained in the Hospitality Program of Study within the Culinary Arts I course.

**ServeSafe Manager Certification**—Obtained in the Hospitality Program of Study within the Culinary Arts III course.

**Southwest Airlines Professional Communication Certification**—Completed in the Business Management and Administration Program of Study within the Business Communications Course.

**TECTA High School Equivalency Center-based Orientation Certificate**--Obtained in the Education Program of Study upon completion of the Early Childhood and Educational Careers II course.