

Springfield High School

Course Catalog

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

English I – G01H09

Course Description: This course emphasizes world literature and composition. Students will work toward creating answers to big ideas and essential questions through thematic units. English I focuses on improving composition techniques by sharpening students' analytical writing. Major texts are determined by grade-level teachers, additional texts and tasks are built in at the teacher's discretion. This course is built with the Tennessee State Standards as its cornerstone, informing teachers of the concepts necessary for mastery.

*A summer reading assignment may be required.

English I Advanced - G01H09A

Course Description: This course adheres to the same Tennessee State Standards as English I, but is enriched in two specific ways: students in English I Advanced will work through the same content but at a faster pace; and students will deepen their understanding of content through supplementary materials such as additional novels or anthologized short stories. Students in English I Advanced are expected to have a work ethic adequate enough to meet multiple deadlines on additional projects and writing tasks for successful completion of the course.

*A summer reading assignment may be required.

English II – G01H10

Course Description: This course emphasizes world literature and composition. Students will work toward creating answers to big ideas and essential questions through thematic units. English II builds on composition techniques first introduced and honed in English I. Major texts are determined by grade-level teachers, but additional texts and tasks are built in at the teacher's discretion. This course is built with the Tennessee State Standards as its cornerstone, informing teachers of the concepts necessary for mastery.

*A summer reading assignment may be required.

English II Advanced – G01H10A

Course Description: This course adheres to the same Tennessee State Standards as English II, but is enriched in two specific ways: students in English II Advanced will work through the same content but at a faster pace; and students will deepen their understanding of content through supplementary materials such as additional novels or anthologized short stories. There will also be an emphasis on students crafting more mature, less formulaic writing as they may have done in English I Advanced. Students in English II Advanced are expected to have a work ethic adequate enough to meet multiple deadlines on additional projects and writing tasks for successful completion of the course.

Completion of a summer reading assignment is a pre-requisite for this course.

English III – G01H11

Course Description: This course will provide students with the opportunity to improve their analysis, writing, and speaking skills in accordance with the Tennessee State Standards. Texts will be chosen from classic and contemporary American literature with emphasis on themes important to American culture. Students will also prepare for the ACT.

*A summer reading assignment may be required.

English III Advanced - G01H11A

Course Description: This course adheres to the same Tennessee State Standards as English III, but is enriched in two specific ways: students in English III Advanced will work through the same content but

at a faster pace, and students will deepen their understanding of content through supplementary materials such as additional novels or anthologized short stories. Students in English III Advanced are expected to have a work ethic adequate enough to meet multiple deadlines on additional projects and writing tasks for successful completion of the course.

*Completion of a summer reading assignment is a pre-requisite for this course.

English IV – G01H13

Course Description: This course will provide students with the opportunity to improve their analysis, writing, and speaking skills in accordance with the Tennessee State Standards. Texts will be chosen from classic and contemporary British Literature with emphasis on themes that expose students to the British experience.

*Students who completed English I, II, and III Advanced are encouraged to take either AP Literature and Composition or Dual Enrollment English 1010/1020 to satisfy their Senior English requirement.

Creative Writing – G01H16

Course Description: This course gives students the opportunity to explore alternative writing styles including narrative, poetry, and personal reflection with a depth that cannot be explored in a traditional English classroom. Students will spend the majority of their time building a writing portfolio, so a commitment to writing is necessary.

Journalism – G01H15

Prerequisite: 10th-12th grade ONLY and Teacher approval

Course Description: Students in this class are tasked with becoming yearbook staff members, and will produce the school yearbook, The Gold & White. Staff members will learn about the journalism code of ethics, how to use publishing software, photography, and design.

*Students wishing to take journalism are asked to apply at the end of their freshman year – or, in the case of an incoming 9th grader, submit an application before school starts.

**Taking this course for three years additionally counts as your program of study.

Tier III ELA Intervention – G01H19

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.

Advanced Placement Language Arts Courses

AP Language and Composition – G01H17

Course Description: This is an advanced writing course whose focus is the study of rhetoric and argumentation. Students will write a number of 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 research paper. Readings of selected nonfiction essays and American works of fiction (novels, short stories) are also required. In addition, this course includes rigorous (cont'd on next page) 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 prior to registering.

*Satisfies English III graduation requirement

**Students taking this course are encouraged to take the AP exam.

AP Literature and Composition – G01H18

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 a number of 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 prior to registration.

*Satisfies English IV graduation requirement

**Students taking this course are encouraged to take the AP exam.

English IV DUAL

English Composition I – ENGL 1010 – G01H30 - 3 college credit hours -- Writing expository compositions based primarily on analysis of essays and literary works; emphasis on rhetorical modes, documentation skills, and revision.

Eligibility Requirements: ACT subscore of 18 in English and 19 in Reading

English Composition II – ENGL 1020 – G01H31 - 3 college credit hours-- Writing argumentative compositions based on issues raised in essays and literary works; emphasis on research skills, support and revision.

Eligibility Requirements: Engl 1010

*It takes both ENGL 1010/1020 to satisfy the requirements for high school ENGLISH IV (Sr. Eng)

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.

Algebra I – G02H00

Course Description: A class in which students will be taught the relationship between variables and coefficients in linear functions based upon the rules and operations that will help determine the values of variables. Students will also learn the operations in order to do various manipulations to polynomials and radical expressions.

Algebra I Advanced – G02H00A

Course Description: This course is a fast-paced, more rigorous math course that sets the foundation for the advanced math courses. 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. Algebra I Advanced is for advanced math students and will cover the standards and supplement with higher level math for success in high school and college.

Geometry – G02H11

Prerequisites: Algebra I or Integrated Math I credit

Course Description: This course teaches students to develop logical thinking skills by the use of undefined terms, definitions, postulates, and theorems. Plane and three-dimensional applications and coordinate geometry are designed to help students learn and use inductive and deductive reasoning in discovering relationships. Higher level thinking skills are necessary for successful completion of Geometry as a foundation for upper level mathematics courses.

Geometry Advanced – G02H11A

Prerequisite: Algebra I Advanced

Course Description: Advanced Geometry includes all topics covered in standard Geometry with a more rigorous approach to geometric topics and a stronger emphasis on proofs. Due to the fast pace and the in-depth coverage of material, the student is expected to do more work outside of the classroom for successful completion of the course. Geometry Advanced covers an in-depth study of points, segments, triangles, polygons, circles, solid figures, their properties and applications. Emphasis is placed on the use of inductive, deductive, and intuitive reasoning skills. Abstract reasoning, spatial visualization and logical reasoning patterns are improved through this course. The focus is on surface areas, volumes, congruency, similarity, and coordinate Geometry.

*A scientific calculator is needed.

Algebra II – G02H05

Prerequisite: Algebra I/ Integrated Math I and Geometry credit

Course Description: Algebra II is a continuation of Algebra I with emphasis on more complex solution processes such as linear systems, polynomials, logarithms, etc. Successful completion of this course is required for entrance into Tennessee public colleges and universities. Algebra II is designed for students committed to entering some type of post high school academic program. Students will be expected to work many practice problems to ensure mastery. Key algebraic concepts will be explored and expanded. The use of the graphing calculator is a vital part of this course.

Algebra II Advanced – G02H05A

Prerequisite: Algebra I Advanced/ Geometry Advanced credit

Course Description: This course teaches all topics of Algebra II 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. 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.

Bridge Math – G02H41

Prerequisite: Senior level math

Course Description: This course is designed to introduce concepts previously studied in a new approach. Connections will be made between concepts allowing for a more in-depth understanding of topics and for problem solving applications. Students will look at multiple representations of concepts, blend their new understanding of topics with applications, and have the opportunity to model contextual situations. Concepts to study will include linear and quadratic functions, similar triangles and proportions, angle properties, scientific notations, polynomial arithmetic, radical expressions and probability. (cont'd on next page)

*This course is mainly for seniors who are either not planning on attending college, planning on attending a community college, or planning on taking Developmental Studies math classes at a four-year University. This course should “fill in the gaps” that many students still have even after passing Algebra I, Geometry, and Algebra II.

Bridge Math S.A.I.L.S. – G02H41S

Prerequisites: Senior level math. Algebra I, Geometry, and Algebra II credit. This course is required for students who score below 19 on the Math portion of the ACT.

Course Description: Mathematical skills in this course are in alignment with the Developmental Studies Program for Mathematics (DSPM) outcomes, the curriculum standards and are required in order to prepare a DSPM student for college level mathematics courses. These new skills are introduced in

conjunction with appropriate mathematical concepts and related to previous learning. Applications of these skills should play a principal role in the learning and assessment process. Technology is used to strategically enhance the student's understanding of core concepts via the use of multiple problem-solving strategies.

*SAILS is an online course given through Volunteer State Community College. Students who complete all components may be allowed to waive remedial math at the college level and be eligible for dual enrollment math in the 2nd half of their senior year.

Statistics – G02H37

Prerequisite: Algebra I, Geometry, and Algebra II credit. This course is for seniors who scored a 19 on the Math portion of the ACT.

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. A non-calculus-based course.

*Designed for students planning to attend post-secondary training, including but not limited to college.

**Use of graphing calculators is required.

Applied Mathematical Concepts – G02H42

Prerequisites: Algebra I, Geometry, and Algebra II credit. This course is for seniors who scored a 19 on the Math portion of the ACT.

Course Description: This course provides a balance of conceptual understandings, 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. Computational and procedural fluency expectations are addressed throughout the standards. Students develop a repertoire of procedures for computation and learn efficient strategies to determine whether the solution(s) makes sense.

Precalculus – G02H23

Prerequisites: Algebra I, Geometry, and Algebra II credit. This course is for seniors who scored a 19 on the Math portion of the ACT.

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. Students who successfully complete this sequence will have a strong background for Calculus. Excellent preparation for College Algebra.

*Juniors who complete Pre-Calculus are expected to enroll in AP Calculus AB for their senior level math.

**For college bound students planning to major in engineering or a math related field or those with a strong background in math.

Tier III Math Intervention – G02H22

Prerequisite: Determined by school Data Team.

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

Advanced Placement Mathematics Courses

Calculus – G02H18

Prerequisite: Senior level math. Precalculus or Precalculus Dual

Course Description: For college bound students, especially those planning to major in math or engineering related fields. Explores limits, derivatives, and integrals.

AP Calculus AB – G02H24

Prerequisite: Senior level math. Algebra I, Geometry, Algebra II, and Calculus or Teacher approval

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.

*In order to receive AP credit on their high school transcript, students must attempt the AP exam.

SCIENCE

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

Biology I – G03H03

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

Prerequisite: Teacher approval, Physical Science Advanced, or qualification with placement test

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 (Non AP) – G03H09

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.

*This course will not result in AP credit. (1 semester = one credit).

Chemistry I – G03H12

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

Prerequisites: Teacher approval. 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. Additional research papers and projects may be required.

*Chemistry I Advanced is designed for students taking advanced math classes who plan to attend college.

Chemistry II (Non AP) – G03H15

Prerequisites: Teacher approval. 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.

*This course will not result in AP credit. (1 semester = one credit).

Geology – G03H01

Prerequisites: Physical Science; Biology, Chemistry

Course Description: Geology is a laboratory science course that explores the origins and the connections between the physical, chemical, and biological processes that govern the earth system. Students explore the physical aspects of earth processes and cycles through open-ended field and laboratory investigations. Understanding the importance of these processes and how they influence humankind enables students to make sound decisions about both their community and the earth's global environment. Embedded standards for Inquiry and Technology & Engineering are taught in the context of the content standards for Maps, Matter and Minerals, Rocks and the Rock Cycle, Geologic History, Plate Tectonics, and Landforms.

Physical Science – G03H00

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. This course prepares the student for biology and chemistry. Physical Science emphasizes skills for scientific thinking, conducting experiments that involve the gathering, recording, and analysis of data, and communicating information with terminology appropriate to physical science. Areas of study include: composition, structure, properties and reactions of matter, mechanics, energy, electricity

and magnetism, and wave motion. 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

Prerequisites: Algebra I Advanced or qualification with placement test

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. Areas of concentration include: composition, structure, properties and reactions of matter, mechanics, energy, electricity and magnetism, and wave motion.

*Advanced course requires a semester long project and additional labs.

Physics – G03H20

Prerequisites: Teacher approval. Physical Science, Chemistry, 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.

*This course is very math oriented, and is for college bound students planning to major in engineering or a math-related field, or those with a strong background in math.

Advanced Placement Science Courses

Biology II PREP/ AP-Biology – G03H10

Prerequisites: Teacher approval, Biology I Advanced, and Chemistry I Advanced

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. This course is designed around the AP Biology Curriculum Framework, developed by the College Board. The curriculum is centered around 4 Big Ideas of Biology: #1- the process of evolution drives the diversity and unity of life, #2- biological systems utilize free energy and molecular building blocks to grow, reproduce, and to maintain dynamic homeostasis, #3 - living systems store, receive, transmit, and respond to information essential to life processes, and #4 - biological systems interact, and these systems and their interactions possess complex properties.

*Full year long block class (2 credits)

Chemistry II PREP/ AP-Chemistry – G03H16

Prerequisites: Teacher approval and Chemistry I Advanced

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. Such credit and placement tied to the AP Chemistry exam could lead to students' readiness for and engagement in the study of advanced topics in subsequent college courses and eventually the achievement of a STEM degree and successful career.

*Full year long block class (2 credits)

SOCIAL SCIENCES

Three (3) credits in social sciences are required for graduation: World History and Geography, United States History and Geography, US Government and Civics (1/2 credit), and Economics (1/2 credit).

African American History – G04H23

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. Outside research and study is required.

*Half credit only (cont'd on next page)

**This course is intended for students that are either in the Humanities POS or truly enjoy the in-depth study of history.

Ancient History – G04H04

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. Outside research and study is required.

*Half credit only

**This course is intended for students that are either in the Humanities POS or truly enjoy the in-depth study of history.

Contemporary Issues – G04H17

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

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.

*Half credit only

Psychology – G04H15

Course Description: Students will study the science of human behavior in various areas, including psychological growth and development, theories of personality, and abnormal psychology. Studies will include: 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.

*Half credit only

Sociology – G04H14

Course Description: Students will explore the ways sociologists view society, and also 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.

*Half credit only

Tennessee History – G04H01HC

Course Description: In this course students will look at the history of Tennessee from the creation of the state to the present. There will also be an in-depth study of the current events that are helping to shape the state. This course is also project based. Each week there will be research and completion of a visual or written project.

*Half credit only

U.S. Government and Civics – G04H12

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.

*Half credit only

U.S. History and Geography – G04H11

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

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.

*This course is only for those that are truly interested in an in-depth look at U.S. History and are willing to work.

World History and Geography –G04H10

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.

World History Advanced – G04H10A

Course Description: This course teaches all topics of World 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.

*This course is only for those that are truly interested in an in-depth look at World History and are willing to work

Advanced Placement Social Science Courses

Coming soon... potentially offered during the 2020-2021 school year

WORLD LANGUAGES

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

Spanish I - G24H04

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 I Advanced – G24H04A

Prerequisites: Teacher approval

Course Description: This course is an option for students who display a strong interest in the language and display exceptional language skills or are a heritage learner.

Spanish II – G24H05

Prerequisite: Spanish I

Course Description: Spanish, in the second year, fulfills the basic world 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, culture, and 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 II Advanced – G24H05A

Prerequisites: Teacher approval

Course Description: This course is an option for students who have taken Spanish I Advanced and display a strong interest in the language and display exceptional language skills or are a heritage learner.

Spanish III - G24H06

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 an 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.

Spanish III Advanced – G24H06A

Prerequisites: Teacher approval.

Course Description: This course is an option for students who have taken Spanish I and II Advanced or are a heritage learner.

Spanish IV - G24H07

Prerequisites: Spanish I, II, III Advanced, or are a heritage learner

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 an 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.

*This course is designed for students who have taken Spanish I, II, and III Advanced and are planning to take AP Spanish Language and Culture.

Spanish V – G24H50

Prerequisites: Spanish I, II, III Advanced, IV, or are a heritage learner

Course Description: This course focuses on preparing students for the Advanced Placement Course in their senior year and the CLEP (College-Level Examination Program) which gives students the opportunity to receive college credit for what they already know by earning qualifying scores on the examination for seniors. Grammar, reading, writing, speaking, and listening skills are covered at an accelerated pace. Students will do research, oral, and written presentations on various cultural topics. This is achieved by groups, partners and individual practice. Emphasis is placed on conversations, vocabulary and correct usage of the language. Correct pronunciation and oral proficiency are primary goals. This requires a daily emphasis on listening and speaking. The classroom experience will provide an appreciation and development of cultural awareness through various readings, media resources and authentic materials.

*This course is designed for students who have taken Spanish I, II, III Advanced, IV, and are planning to take AP Spanish Language and Culture.

Advanced Placement World Language Courses

AP Spanish Language and Culture – G24H08

Prerequisites: Spanish I, II, III Advanced, IV, V, or are a heritage learner

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

Course Description: This course introduces the student to a survey program covering a wide variety of experiences in several art areas. The program includes basic art instruction in both two dimensional and three-dimensional areas. Some of the areas to be covered are: drawing, painting, graphics, design, crafts, ceramics, and sculpture.

Visual Art II – G05H09

Prerequisite: Visual Art I with a C or above and teacher approval

Course Description: The Art II course expands on the art experiences introduced in the Art I class. This course offers continued study and studio experience in varied media with more importance being placed on the esthetic appreciation and critical aspects of the student's work. Students will also begin working with the principals of art and start collecting work to place in a portfolio.

Visual Art III – G05H10

Prerequisite: Visual Art I and II with a C or above and Teacher Approval

Course Description: This 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 is 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.

Class Piano – G05H36

Course Description: This course is designed for the beginning student wishing to learn the basic fundamentals of piano playing. Students do not need to have a piano available for home practice, though it would be helpful. Elements of music theory and music history are part of this course. *After-school and/or evening performances may be required for this course.

**No prior knowledge of the instrument is required.

Class Guitar – G05H36

Course Description: This course is designed for the beginning student wishing to learn the basic fundamentals of guitar. Elements of music theory and music history are part of this course.

*Your personal instrument is required for enrollment.

**After-school and/or evening performances may be required for this course.

***No prior knowledge of the instrument is required.

General Music – G05H11

Course Description: A general study of musical styles, music history, composers, literature, musical terms, and listening. No music experience is required.

Music Theory – G05H44

Course Description: In this course, students will better understand music in relation to history and culture, and the relationship between music, the other arts, and disciplines outside of the arts. Students will listen to, analyze, and describe various genres of music, read and notate music, as well as sing and play an instrument alone or with others in a group.

Instrumental Music – Ensemble – Instrumental Music High School I – G05H36

Course Description: This course is designed for freshmen band members. This course will serve as a bridge from the middle school level to the high school level of expected instrumental techniques. Topics will include improved tone, technique, and fundamentals to improve individual and group musicianship.

*This course will require extracurricular rehearsals and performances throughout the year.

**All freshmen band members are expected to take this course.

Instrumental Music – Instrumental Music High School II, III, and IV – G05H37, G05H38, G05H39
Course Description: This is a music class for students who have previously received instrumental music training. Students who elect to register for band will receive training and instruction in the following areas: marching band, concert band, stage band (jazz ensembles; pit orchestra), ensemble, and solo playing. The more capable students may qualify to participate in the All-Middle Tennessee Band, All-State Band and Orchestra, and various instrumental music clinics. The two functions of the band are: 1. to provide interested students a program of music education. 2. To provide music for school, civic, and service-related activities.

*Extracurricular rehearsals and performances will be required.

Beginning Choir – Symphonic Choir – Vocal Music High School I – G05H40

Course Description: This course is designed for the beginning level male and/or female vocalist. No audition or previous choir experience is required to become a member. The students will learn basic music reading and vocal techniques. This course may require after school rehearsals, performances and/or field trip(s) that will be used as part of the evaluation process. This course may also require designated fees for membership that can be alleviated through student/parent fundraising. Students can earn credit in each vocal organization for multiple years. This is a year-long course that explores choral music from a wide variety of cultures and time periods through study and performance. The core curriculum emphasizes the basics of vocal technique, sight-reading, music theory, and music history.

Advanced Choir: Sound System – Vocal Music High School II, III, & IV – G05H41, G05H42, G05H43

Course Description: This course is a select ensemble designed for the advanced vocal student. The completion of a successful audition is required for membership. This ensemble may be set up as an all-female SSAA ensemble, an all-male TTBB ensemble or as a mixed SATB ensemble. Structure of the ensemble will be determined by the individual school. Emphasis is placed on elevating music reading skills and performance techniques to an advanced level through standard and custom choral literature. Students in this class should have previous choral ensemble experience. The students in this class should exhibit solid music reading skills and have a working knowledge of vocal techniques. Participation in the All-State and Mid-State choral auditions is encouraged and emphasized. Private vocal instruction is encouraged. This course may require after school rehearsals, performances and/or field trip(s) that will be used as part of the evaluation process. This course may also require designated fees for membership that can be alleviated through student/parent fundraising. Students can earn credit in each instrumental organization for multiple years.

All Choirs

Materials Needed:

- Black 1” 3-ring notebook, with inside pockets
- Pencil – you must have a pencil that “lives” in your choral folder
- Chorus Uniform – more information will follow, but there is a required uniform for all chorus students.
- Assistance is available for students needing help with the financial obligations of this course.

Theatre Arts I – G05H16

Course Description: This is an introductory course in theatre appreciation. Course work includes the study of theatre terminology, creative dramatics, improvisation, pantomime, dramatic structure, theatre history, and basic acting. Students will study the cultural contribution of theatre, its structure, the play, and its performance.

Theatre Arts II – G05H17

Prerequisite: Theatre Art I or Teacher Approval

Course Description: This course focuses on the following aspects of theater: script writing, character acting, scene design, directing, research, theatrical presentation, scene comprehension, and context.

Audition techniques, the physical and mental techniques of self-discipline, and other professional concerns will be stressed. A more rigorous, performance-based class than Theatre Arts I.

*Participation in play production during the Spring semester is mandatory.

OTHER REQUIREMENTS FOR GRADUATION

Lifetime Wellness – G08H02

Course Description: This is a combination health and physical education class. This 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. Time will be spent in both the gym and the classroom. 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.

*One (1) credit required for graduation.

**Changing clothes to appropriate gym-wear is a requirement.

***This one (1) credit requirement may be satisfied by completing two credits in AFJROTC.

Personal Finance - C12H24

Course Description: Adulting 101 for Students! 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. Upon completion of this course, proficient students will understand how their decisions will impact their future financial well-being.

*Half (1/2) credit required for graduation.

American Business Legal Systems – C12H20

Course Descriptions: One of the top college majors is Business. American Business Legal Systems is a course designed to provide you with an overview of the legal system, including statutes and regulations that affect businesses, families, and individuals in a variety of ways. **Knowledge of business law is especially important because all students eventually assume the roles of citizens, workers, and consumers in society.** Businesses operate in an increasingly global environment where the laws of different countries and judicial systems frequently conflict. As a result, business students must have a basic knowledge of the legal system and how business law impacts commerce both nationally and internationally. Students will also learn how to distinguish unethical behavior from illegal behavior. One of the most crucial changes in business law is how technology has impacted the law, especially with regards to computers and the Internet. Topics covered include the history, development, and classification of laws, personal and business law related to everyday life, contract law, the court system and courtroom procedures, legal terminology, constitutional rights, ethics, technology law, intellectual property, social responsibility, international law and consumer protections

*Substitutes for Required Government Credit

Business Economics – C12H21

Course Description: Business Economics introduces economic concepts and principles which are useful in understanding the general economic environment within which businesses and other organizations operate. You will learn how consumers and businesses make economic decisions and how they interact with each other in economic markets. You will gain an understanding of economic principles, economic systems, and other related activities. You will also learn how your participation as a citizen affects the U.S. economy. There is a focus on the basic principles concerning production, consumption, and distribution and services in the United States with a comparison to other countries (economies) around the world. Some of the topics that will be covered include types of economic systems, the role of government, businesses and individuals in the U.S. economy, market structures and careers in business economics.

* Substitutes for Required Economics Credit

Physical Education – G08H00

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 half (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, Weights and Conditioning, Net Games, and Interscholastic Athletics.

PEBaseball - G08H00BAHC

Course Description: This course is for baseball team members that are fully committed and dedicated to learning and developing each year in baseball. It requires top conditioning and learning baseball fundamentals.

*Half credit only

PEBoys' Basketball – G08H00MBB

Course Description: This course is for boys' basketball team members that are fully committed and dedicated to learning and developing each year in basketball. It requires top conditioning and learning basketball fundamentals.

PEFootball – G08H00FBHC

Course Description: This course is for football team members that are fully committed and dedicated to learning and developing each year in football. It requires top conditioning and learning football fundamentals.

PEGirls' Basketball – G08H00WBB

Course Description: This course is for girls' basketball team members that are fully committed and dedicated to learning and developing each year in basketball. It requires top conditioning and learning basketball fundamentals.

PENet Games – G08H00NG

Course Description: This course will involve the rules and strategies of Team Handball, Volleyball, Badminton and Pickleball.

*Half credit only

PEPower Walking – G08H00PW

Course Description: Looking for a way to stay in shape or get there, this course will offer you a chance to do this. Students will learn to monitor target heart rate while learning the correct walking and breathing technique. Students will use the bleacher area and outside area to complete their power walking.

*Half credit only

PE Seniors – G08H00SR

Course Description: This course will involve rules to multiple team and individual sports, as well as learn about nutrition and proper fitness.

PESoftball – G08H00SBHC

Course Description: This course is for girls' softball team members that are fully committed and dedicated to learning and developing each year in softball. It requires top conditioning and learning softball fundamentals.

*Half credit only

PETable Tennis - G08H00TT

Course Description: This course will teach students the basics of, and allow them to experience playing table tennis-ping pong.

*Half credit only

PETeam Games – G08H00TG

Course Description: This course will involve the rules and strategies of flag football, ultimate frisbee, soccer, whiffle ball and basketball.

*Half credit only

PEVolleyball – G08H00VB

Course Description: This course is for girls' volleyball team members that are fully committed and dedicated to learning and developing each year in volleyball. It requires top conditioning and learning volleyball fundamentals.

*Half credit only

PEWeights and Conditioning – G08H00WCHC

Course Description: Students enrolled in football, basketball, or volleyball are not allowed to enroll in this class. Students will participate in workout regiments involving weight lifting and running.

*Half credit only

PREPARING FOR THE ACT, COLLEGE, AND CAREER

Preparing for the ACT, Postsecondary, & Career – G25H00

Prerequisites: Open to juniors and seniors

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.

MILITARY SCIENCE

AFJROTC I - Journey into Aviation History – G08H04

Course Description: This course consists of basic instruction in Aerospace Science, military history, personal responsibility, citizenship part I, drill and ceremonies, and leadership education. The objective of the course is threefold: to introduce cadets to AFJROTC, military customs and courtesies, drill and ceremony and the history, development, and impact of aviation throughout history. (Twenty percent of the course consists of physical fitness.)

*Wearing the uniform is mandatory 1 day per week.

**Participation in civic functions (parades, color guards, etc.) and community service are expected as required by the instructor staff.

AFJROTC II – The Science of Flight: A Gateway to New Horizons – G08H05

Course Description: This course consists of basic instruction in the Science of Flight and introduction to AFJROTC part II. Students will learn the physiological and physical requirements of flight, basics of good citizenship and advanced drill. The objective of the course is threefold: To familiarize cadets with the science and principles of flight and meteorology, to sharpen cadets' communication skills both written and verbal, and to sharpen cadets' confidence in drill and ceremony. (Twenty percent of the course consists of physical fitness.)

*Wearing the uniform is mandatory 1 day per week.

**Participation in civic functions (parades, color guards, etc.) and community service are expected as required by the instructor staff.

AFJROTC III – Exploring Space, The High Frontier – G08H06

Prerequisite: Open to sophomores, juniors, and seniors

Course Description: This course consists of instruction in the exploration of space and communication skills part I. Students will study the solar system, space travel and modern rocketry techniques. The objective of this course is threefold: To familiarize cadets with basic astronomy and the exploration of space, to introduce cadets to life skills and the various opportunities open to them, and to hone cadets' confidence in leadership, drill and ceremony. (Twenty percent of the course is physical fitness.)

*Wearing the uniform is mandatory 1 day per week.

**Participation in civic functions (parades, color guards, etc.) and community service are expected as required by the instructor staff.

AFJROTC IV – Survival – G08H07

Prerequisites: Open to juniors and seniors

Course Description: This course consists of instruction in advanced survival skills and the principles of management. Other special instruction is provided based on student and instructor needs assessment. The objective of the course is threefold: To familiarize cadets with basic survival skills, to introduce cadets to leadership and management principles, and problem-solving skills they will use throughout life, and to enhance cadets' confidence in leadership, drill, and ceremony. (Twenty percent of this course is physical fitness.)

*Wearing the uniform is mandatory 1 day per week.

**Participation in civic functions (parades, color guards, etc.) and community service are expected as required by the instructor staff.

AFJROTC V, VI, VII, and VIII – Management of the Cadet Corps – G08H08

Prerequisites: Open to juniors and seniors who have completed AFJROTC I – IV and have instructor approval.

Course Description: This course is specifically designed for advanced students. Their duties will consist of leading, teaching, and mentoring junior cadets in all aspects of the AFJROTC curriculum. Students will be expected to master drill and ceremonies, leadership tactics and management of large inventories of AFJROTC uniform and computer items. (Twenty Percent of this course is physical fitness.)

*Wearing the uniform is mandatory 1 day per week.

**Participation in civic functions (parades, color guards, etc.) and community service are expected as required by the instructor staff.

EARLY POSTSECONDARY OPPORTUNITIES

District Collaborative with Austin Peay State University:

Students have the opportunity to enroll in the APSU District Collaborative beginning in the summer after the 10th grade school year. Students have the opportunity to 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. The proposed fall and spring 2019-20 class schedule is listed below

Fall 2019 Proposed Class Schedule:

Course		Credit Hours
HIST 2010	Early US History	3
ENGL 1010	English Composition	3
APSU 1000	Freshmen Seminar	1
Elective – online	Student choice	3

Spring 2020 Proposed Class Schedule:

Course		Credit Hours
HIST 2020	Modern US History	3
ENGL 1020	English Composition	3
Elective – online	Student's choice	3

Dual Enrollment with Volunteer State Community College:

Juniors and seniors have the opportunity to 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 postsecondary 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 first block. Students enrolled in some programs that articulate to a technical school can dual 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

Course Description: This course 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. Standards in this course are aligned with Tennessee Common Core State Standards for English Language Arts & Literacy in Technical Subjects, Tennessee Common Core State Standards in Mathematics, and Tennessee state standards in Anatomy and Physiology, Biology I, Biology II, Chemistry I, Chemistry II, Environmental Science, Physical Science, Physics, and Physical World Concepts, as well as the National Agriculture, Food and Natural Resources Career Cluster Content Standards.

*This course counts as a lab science credit toward graduation and college entrance requirements.

Small Animal Science – C18H20

Prerequisite: Agriscience

Course Description: This course 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 the anatomy and physiological systems of different groups of small animals, as well as careers, leadership, and history of the industry.

Large Animal Science – C18H27

Prerequisite: Agriscience

Course Description: This course 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 the anatomy and physiological systems of different groups of large animals, as well as careers, leadership, and history of the industry. Upon completion of this course, proficient students will be prepared for success in the level-four Veterinary Science course and further postsecondary training.

Veterinary Science – C18H21

Prerequisite: Agriscience

Course Description: This course 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.

*Interaction with field –based veterinarians is part of the course.

Principles of Agribusiness – C18H14

Prerequisite: Agriscience

Course Description: This course teaches students to apply the economic and business principles involved in the sale and supply of agricultural products to a wide range of careers across the industry and builds functional knowledge of finance and marketing principles. Upon completion of this course, proficient students will be prepared for more advanced coursework in the Agribusiness program of study.

Greenhouse Management – C18H17

Prerequisite: Agriscience

Course Description: This course 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.

**Lab work in the greenhouse will consist of planting, care and selling of plants as part of the class experience.

Landscaping and Turf Science – C18H16

Prerequisite: Agriscience

Course Description: This course 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.

ARCHITECTURE AND CONSTRUCTION

Fundamentals of Construction – C17H15

Course Description: This course 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

Prerequisite: Fundamentals of Construction

Course Description: This course is second 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 the 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

Prerequisite: Fundamentals of Construction and Residential and Commercial Construction I

Course Description: This course is third 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.

Foundations of Interior Design – C17H12

Course Description: This course is first in the Interior Design program of study intended to prepare students for careers in residential and commercial interior design. Standards in this course include career exploration of various options within the interior design industry as well as an overview of the history of architecture and design. Projects will involve individual and team assignments. Upon completion of this course, proficient students will be able to analyze and demonstrate the elements and the principles of design, and apply these concepts using sketching techniques in the creation of perspective floor plans.

Residential Interior Design – C17H11

Prerequisite: Foundations of Interior Design

Course Description: Residential Interior Design is the second course in the Interior Design program of study intended to prepare students for careers in residential and commercial interior design. Students will engage in the development of board presentation techniques for residential spaces using textiles samples and three-dimensional sketches. Upon completion of this course, proficient students will be able to use manual drafting tools and computer-aided drafting software to create original floor plans, perspective drawings, and color renderings.

Commercial Interior Design – C17H20

Prerequisite: Foundations of Interior Design and Residential Interior Design

Course Description: Commercial Interior Design is the third course in the Interior Design program of study intended to prepare students for careers in residential and commercial interior design. Important components in this course include developing an understanding of specifications for commercial design, building technology, building codes, product applications, and product testing research and development. Students will work individually and in teams to make presentations to prospective commercial clients and defend their designs and presentation boards. Upon completion of this course, proficient students will be able to create three-dimensional pictorial representations of objects by way of size, shape, shading, and color using industry-standard software programs.

ARTS, AUDIO/VISUAL TECHNOLOGY & COMMUNICATION

Foundations of Fashion Design – C05H10

Course Description: This course introduces students to the rich history of the fashion industry and the basic design principles that are integral to its operation. This course studies the history of the fashion industry, elements and principles of design, textile history and composition, as well as basic construction principles. Upon completion of this course, proficient students will be able to demonstrate basic garment production and will create artifacts for inclusion in a portfolio, which will continue to build throughout the program of study.

Fashion Design – C05H05

Prerequisite: Foundations of Fashion Design

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. Students will explore trends in fashion and engage with industry specific technologies used to produce a variety of fabrics, garments, and accessories. Students will continue to build on their portfolio from Foundations of Fashion Design.

Advanced Fashion Design – C05H06

Prerequisites: Foundations of Fashion Design **and** Fashion Design

Course Description: This is a 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. Students will focus on skills related to business professionalism, ethics, policies, and communication in the fashion industry. In addition, students will complete a capstone project by creating their own individual fashion line for inclusion in their career portfolio.

Digital Arts and Design I – C05H07

Course Description: This course is an art course that provides an introduction to visual communication and basic design strategies. Students will acquire basic skills in illustration, page layout, and photography. Standards in this course include professionalism, foundational art skills, career exploration, an overview of the history of design, basic business management, and legal issues with a heavy reliance on technology. In addition, students will begin compiling art for inclusion in a digital portfolio, which they will carry with them throughout the full sequence of courses in this program of study.

Digital Arts and Design II – C05H08

Prerequisite: Digital Arts and Design I

Course Description: This course builds on the foundational elements learned in Digital Arts and Design I. Course content is designed to reinforce skills and support understanding that is essential while learning advanced photography concepts and page composition and layout software. Along with continued study of design principles, conceptualization processes and techniques, students will gain mastery of various applications of design, digital and production equipment. In addition, students will continue compiling art for inclusion in their digital portfolio, which they will carry with them throughout the full sequence of courses in this program of study.

Digital Arts and Design III – C05H09

Prerequisites: Digital Arts and Design I and Digital Arts and Design II

Course Description: This is the third course in the program and involves a meeting of technologies, visual arts and creative practice. Course content is selected to broaden the foundation of design concepts and understanding related to modern communication design. By applying design skills developed in prior courses, students will expand their creative and critical thinking skills to create three-dimensional designs and basic animation. Upon completion of this course, proficient students will be able to use industry standard software to create three-dimensional models and animations. Students will utilize research techniques to plan and enhance project outcomes. Standards in this course also include professionalism and ethics, career exploration, and business and project management. In addition, students will continue compiling artifacts for inclusion in a digital portfolio, which they will carry with them throughout the full sequence of courses in this program of study and use to further themselves through employment or postsecondary opportunity.

AppliedArtsPracticum – C05H11

Course Description: This course is a capstone course intended to provide students with the opportunity to apply the skills and knowledge learned in the Digital Arts and Design 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. The course is highly customizable to meet local system needs. Instruction is delivered through school laboratory training. 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

Entry Level

Introduction to Business and Marketing – C12H26

Course Description: What do you want to do with the rest of your life? You don't have to know for this class because everything involves business. In this course we examine the basic principles of business, marketing, and finance in addition to exploring the aspects of leadership, ethics, social responsibility, and career paths. Take Intro to Business and Marketing to gain life-changing skills needed in order to be successful regardless of your future plans.

Computer Applications – C12H19

Course Description: Everyone needs to learn computer skills, so why not learn them early? Taking Computer Apps will help you be successful in other classes and be prepared for college/career by learning Office365, Word, Excel, and PowerPoint! This course also focuses on basic computer usage, ethics, and MLA formatting. If you're ready to make life easier, take this class!

Accounting

Accounting I – C12H27

Prerequisite: Introduction to Business and Marketing

Course Description: Business is a game, money is how you keep score, and accountants are the scorekeepers! If you've ever been the Banker in Monopoly or enjoyed a Papa's restaurant game, you should explore accounting! Accounting is the backbone of all businesses, so it's important that you understand the basics. In Accounting I, you will learn about money management, inventory, payroll, and business analysis.

Accounting II – C12H28

Prerequisite: Accounting I

Course Description: Ready for the next step? If you thought Accounting I was interesting, you might be an accountant! Accounting II is an advanced study of the principles learned in Accounting I. Ideal for juniors or seniors, this course will prepare students for post-graduation, whether they pursue a banking job, a business degree, or a CPA program.

Management

Business Communication – C12H16

Prerequisite: Computer Applications or Introduction to Business and Marketing

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. Students will create resumes and portfolios.

Business Management – C12H17

Prerequisite: Business Communications or Accounting I

Course Description: Business Management focuses on the development of the planning, organizing, leading, and controlling functions required for the production and delivery of goods and services. This applied knowledge course addresses the management role of utilizing the businesses' resources of employees, equipment, and capital to achieve an organization's goals. Students will participate in a continuing project throughout the course in which, individually or in teams, they will present recommendations to improve an existing business. Upon completion of this course, proficient students will be able to complete a full review of an existing business and offer recommendations for improvement as would a management consultant.

Advanced Computer Applications – C12H25

Prerequisite: Computer Applications

Course Description: Love working on the computer, but want to grow your skills? Advanced Computer Applications will allow students to significantly improve Word, Excel, and even PowerPoint skills to the professional level. In this course, students can earn an industry certificate in one or more Microsoft applications – nice resume boosters indeed!

Marketing/ Entrepreneurship

Marketing and Management I: Principles – C12H29

Prerequisites: Intro to Business and Marketing or Teacher approval (cont'd on next page)

Course Description: Often in our society, reputation is more highly viewed than intelligence. Networking is an essential skill for achieving success. Need help improving your reputation? Come take Marketing 1 where we cover promotion, distribution, and selling strategies as well as the fundamentals of economics, international marketing, and career development.

Marketing and Management II: Advanced Strategies – C12H30

Prerequisites: Marketing and Management I

Course Description: Do you like to be in control of a situation? Do you want to be your own boss? Then this is the course for you. In this course we study marketing concepts and principles used in management. We also examine the challenges, responsibilities, and risks managers face in today's workplace.

Entrepreneurship – C12H31

Prerequisites: Marketing and Management I

Course Description: Do you have a dream of starting your own business? In this course, we go through the process of beginning to make that dream a reality. By the end of this course, you will have a complete plan for starting your business and ensuring its success moving forward.

EDUCATION AND TRAINING

(Currently offered through virtual programming with East Robertson)

Teaching as a Profession I – C25H04

Course Description: This course is for students interested in learning more about becoming a school counselor, teacher, trainer, 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 will conduct observations of educators at work and create artifacts for a course portfolio, which will continue with them throughout the program of study.

Teaching as a Profession II – C25H06

Course Description: This course is an applied knowledge course for students interested in learning more about becoming a school counselor, teacher, trainer, 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, which will carry with them throughout the program of study.

Teaching as a Profession III - C25H07

Course Description: This course is a capstone course in the Education and Training career cluster for students interested in applying the knowledge and skills learned in previous courses toward becoming a teacher, school counselor, trainer, 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.

HEALTH SCIENCE EDUCATION

Health Science Education – C14H14

Course Description: This course is an introduction to broad standards that serve to introduce careers in the fields of biotechnology research, therapeutics, health informatics, diagnostics, and support services. Units included are academics in health care communications systems, legal responsibilities, ethics, teamwork, and safety practices. Compare and contrast the features of health care systems, explain the legal and ethical ramifications of the health care setting and begin to perform foundational health care skills.

Diagnostic Medicine – C14H12

Prerequisite: Health Science Education

Course Description: This course creates a picture of an individual's health status at a single point in time. Students learn about radiology and imaging, medical laboratory skills, careers, optometry, and EKG. This could include the 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

Prerequisite: Health Science Education

Course Description: This course 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 assess, monitor, evaluate, and report patient health status; and identify the purpose and components of treatments by exploring therapeutic careers, such as dental, dietetics, medical assistance, home health, nursing, pharmacy, respiratory, social work, nutritionist, physician, psychiatrist, psychologist, veterinarian, gerontology service provider, medical practice owner, attorney for health care, and others. The student will incorporate communication, goal setting, and information collection skills to be successful in the workplace.

Anatomy and Physiology – C14H09

Prerequisite: Health Science Education

Course Description: This 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 – C14H16A/ C14H16B

Prerequisite: Health Science Education **and** Anatomy & Physiology

Course Description: This course 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 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.

*Entry to this class consists of an application and interview process, and approval from the instructor.

Clinical Internship – C14H11

Prerequisites: Anatomy and Physiology **and** one of the following: Medical Therapeutics or Rehabilitation Careers or Diagnostic Medicine. Entry to this course consists of an application and interview process, and teacher approval.

Course Description: This course is a capstone course and work-based learning experience designed to provide students with real-world application of skills and knowledge obtained in a prerequisite Health Science course. Upon completion of this course, proficient students will be able to pursue certification in the pre-requisite course of Cardiovascular Services, Exercise Physiology, Medical Therapeutics, 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.

Rehabilitation Careers – C14H08

Prerequisite: Health Science Education **and** Anatomy & Physiology

Course Description: This course is an applied course designed to prepare students to pursue careers in rehabilitation services. Upon completion of this course, a proficient student will be able to identify careers in rehabilitation services, recognize diseases, disorders or injuries related to rehabilitation services, and correlate the related anatomy and physiology. They will then be able to develop a plan of treatment with appropriate modalities.

Emergency Medical Services – C14H13

Prerequisite: Anatomy & Physiology **and** Medical Therapeutics

Course Description: This course 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

Course Description: This course 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. Students will gain basic knowledge in food safety, food preparation, kitchen safety, commercial equipment use, cooking techniques, commercial food service terminology, knife skills, cooking skills (using a recipe, measurement), food staples. Students will also begin working on learning about being professional and being ready to enter the work force on an individual level. Students will also begin compiling evidence to create a portfolio that will be added to each year with proof of knowledge perfected or new knowledge gained.

Culinary Arts II – C16H07

Prerequisite: Culinary Arts I

Course Description: This course is the second level of the Culinary Arts program of study. This course also prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. Students get to reinforce and expand on cooking techniques, cooking skills, commercial food service terminology, knife skills, food safety, food preparation. During this course they also gain knowledge for menu planning, food cost, sanitation, and cross-contamination. Students will also learn more about the different types of food such as vegetables, fruits, soups, sauces, stocks, and starches that are used in the industry. As the student gains new knowledge and hones his or her previous knowledge they will display this in the portfolio they started in Culinary Arts I.

*Students in this course will take their food handler certification test.

Culinary Arts III – C16H08

Prerequisite: Culinary Arts I and Culinary Arts II

Course Description: This course 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. Students will expand their previously gained knowledge by learning and practicing new skills. The new skills and knowledge will be over dining room set up, place settings, HACCP plans, chicken, beef, eggs, dairy, cheese, pies, cookies, and breads. As the student gains new knowledge and hones their previous knowledge they will display this in the portfolio they started in Culinary Arts I.

*Students in this course will take their ServSafe Manager certification test.

HUMAN SERVICES

Introduction to Human Studies – C19H19

Course Description: This course 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. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study.

*Family, Career and Community Leaders of America (FCCLA), the co-curricular student organization, provides students with opportunities for leadership development, personal growth and school/community involvement.

Lifespan Development – C19H17

Prerequisite: Introduction to Human Studies

Course Description: This course prepares students to understand the physical, social, emotional and intellectual growth and development throughout the lifespan. Experiences such as laboratory observations, job shadowing, service learning and laboratory participation will enhance the learning process. Instructional content includes child development theories and research; prenatal development; infants and toddlers; preschool years; middle childhood; adolescence; adulthood; geriatrics; death and dying; careers; and leadership, citizenship and teamwork.

Family Studies – C19H18

Prerequisite: Introduction to Human Studies

Course Description: This course 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. (cont'd on next page)

*Family, Career and Community Leaders of America (FCCLA), the co-curricular student organization, provides students with opportunities for leadership development, personal growth and school/community involvement.

Nutrition Across the Lifespan – C19H15

Prerequisite: Introduction to Human Studies

Course Description: This course is designed to help students understand the nutrient value, appetite appeal, social significance and cultural aspects of food. Students will examine the role of nutrition in the

promotion of optimal body performance throughout the life span. The course offers students opportunities to develop skills in the safe and sanitary selection, preparation, storing, and serving of food; meal management to meet individual and family nutrition needs across the life span; and optimal use of food resources. Instruction includes academic integration and technology applications. Careers in nutrition and food industries will be explored.

*Family, Career and Community Leaders of America (FCCLA), the co-curricular student organization, provides students with opportunities for leadership development, personal growth and school/community involvement.

Nutrition Science and Diet Therapy – C19H16

Prerequisite: Introduction to Human Studies

Course Description: This course 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

Course Description: This course is the beginners' class which introduces students to the history of cosmetology, proper ethics, communication skills, safety, and sanitation. Students will have hands-on training with manicuring, pedicuring, and four different haircuts.

Cosmetology II – C19H14

Prerequisite: Cosmetology I

Course Description: This course is the second level where students will learn how to do artificial nails, hair coloring, perming, more haircutting and hair design. This course is for an entire year.

Cosmetology III – C19H13

Prerequisite: Cosmetology I and Cosmetology II

Course Description: This is the third and last level of the cosmetology classes. This class is designed for the student that is truly interested in pursuing hairstyling as their career and to further advance their education after graduation. They study the chemistry aspects of hair products, and we do facials, facial waxing, and more in-depth cutting and styling. This class allows them to gain more cosmetology hours through the State of Tennessee which will put them that much closer to obtaining their official license.

LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY

Criminal Justice I – C15H10

Course Description: This course is the first course in the Criminal Justice and Correction Services program of study. It serves as a comprehensive survey of how the law enforcement, legal, and correctional systems interact with each other in the United States. Upon completion of this course, proficient students will understand the context of local, state, and federal laws, the concepts of crime control and the judicial process, and the importance of communications and professionalism in law enforcement.

Criminal Justice II – C15H11

Course Description: This course is the second course in the Criminal Justice and Correction Services program of study. Upon completion of this course, proficient students will understand the impact of the constitution on law enforcement, law enforcement and police procedures, alcohol and beverage laws, sentencing, and the importance of communications and professionalism in law enforcement.

Criminal Justice III: Investigation – C15H12

Course Description: This course is the third 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 in 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.

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS

Principles of Engineering and Technology – C21H04

Course Description: This course is a foundational course in the STEM cluster for students interested in learning more about careers in engineering and technology. This course will focus on the three dimensions of technological literacy: knowledge, ways of thinking and acting, and capabilities, with the goal of students developing the characteristics of technologically literate citizens. It will employ teaching/learning strategies that enable students to build their own understanding of new ideas. It is designed to engage students in exploring and deepening their understanding of engineering.

Engineering Design I – C21H05

Course Description: This course contributes to the development of each high school student's capability to make responsible judgments about technology's development, control, and use. Critiquing appropriate technology and sustainable development are important. The structure of the course brings discussions of technological values so that students can reflect and develop their own ethical standards. Students are actively involved in the organized and integrated application of technological resources, engineering concepts, and scientific procedures. Students address the complexities of technology and issues that stem from designing, developing, using and assessing technological systems. In developing a functional understanding of technology, students comprehend how human conditions, current affairs, and personal preferences drive technological design and problem solving.

Engineering Design II – C21H06

Course Description: This course 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.

TRANSPORTATION, DISTRIBUTION, AND LOGISTICS

Maintenance and Light Repair I – C20H09

Course Description: In this course 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. Upon completing all of the Maintenance and Light Repair courses, students will be prepared to sit for the ASE MLR certification exam and upon passing, enter automotive service industry as an ASE Certified MLR Technician.

Maintenance and Light Repair II - C20H10

Prerequisite: Maintenance and Light Repair I

Course Description: Students study automotive general electrical systems, starting and charging systems, batteries, lighting, and electrical accessories.

Maintenance and Light Repair III – C20H11

Prerequisites: Maintenance and Light Repair I and II

Course Description: Students study and service suspension and steering systems and brake systems. Upon completing all of the Maintenance and Light Repair courses, students may enter the automotive service industry as an ASE Certified MLR Technician.

Maintenance and Light Repair IV – C20H12

Prerequisites: Maintenance and Light Repair I, II, and III

Course Description: In this course students prepare for entry into the automotive workforce or into postsecondary 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 of the Maintenance and Light Repair courses, students will be prepared to sit for the ASE MLR certification exam and upon passing, enter automotive service industry as an ASE Certified MLR Technician.

EARLY POSTSECONDARY OPPORTUNITIES IN CTE

Tennessee College of Applied Technology at Nashville (Springfield CTC) Pending Instructor

Junior and Senior students from any high school in Robertson County may take Dual Enrollment Welding at the CTC. Transportation will be provided for this program.

Dual Enrollment Welding 4062

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 4065 = UTM ANS 260 Behavior of Farm and Companion Animals Dual Enrollment Ag Business 4067 = UTM AGECEC 110 Intro to Ag Business Dual Enrollment Horticulture 4069 = UTM PLSC 110 Intro to Plant and Soil Science Dual Enrollment Ag. & Natural Resource Mgt. 4070 = UTM NRM 100 Intro to Natural Resource Mgt.

UTM Finance Dual Enrollment Financial Planning 4089 = UTM FIN 160 Financial Planning

UTM Health Dual Enrollment Health Science 4094 = UTM HLTH 220 Advanced First Aid, CPR, and AED (pending)

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 list chart below outlines the High School CTE courses that must be completed before taking dual credit tests.

High School Course(s) VSCC class with credit hours 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

Microsoft Office Specialist - Students who successfully complete Computer Applications 5891 and who are taking Advanced Computer Applications 5904 and score over 80 percent on the gMetrix exam will receive a certification vouchers. Students can test for Microsoft Word and Excel Specialist Certification.

ServSafe Manager – Students who have completed Culinary Arts I, II and enrolled in Culinary III are eligible to test for certification. A pretest will be administered to determine student readiness for the exam. Students who reach the qualifying score on the pretest will receive a voucher for this online exam. This certification endorsed by the National Restaurant Association is nationally recognized throughout the Food Service Industry.