

RED BOILING SPRINGS HIGH SCHOOL

COURSE DESCRIPTIONS

***Indicates 5-point class.**

Courses included in this document may not be offered every year.

FINE ARTS

FOUNDATIONS OF FASHION DESIGN

Grade Levels: 9, 10, 11, 12

Foundations of Fashion Design 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.

GENERAL MUSIC

Grade Levels: 9, 10, 11, 12

General Music is a course that seeks to give students in grades 9-12 an understanding of the elements, history, and role of music in today's society. The course will encourage active participation in performing and creating music through a balanced comprehensive and sequential program of study. In addition, a correlation between music, the other arts, and academic disciplines will be included.

HEALTH / PHYSICAL EDUCATION / DRIVER'S EDUCATION

DRIVER'S EDUCATION

Grade Levels: 10, 11, 12

The driver's education program at Macon County High School is one that prepares students for the rules and regulations of the road. It also prepares a student to handle a car on the open road. The class is offered mainly to students in Grades 10-12 who have a driver's permit but do not yet have a driver's license. This course is taught by a certified instructor and will prepare a student to take driving parts of the Tennessee Driver's Licensing exam.

PHYSICAL EDUCATION (½ credit)

Grade Levels: 9, 10, 11, 12

A physically educated person will demonstrate competency in motor skills and movement patterns needed to perform a variety of physical activities. The student will demonstrate an understanding of movement concepts, principles, strategies, and tactics as they apply to the learning and performance of physical activities. The student will participate regularly in physical activity. The student will achieve and maintain a health-enhancing level of physical fitness. The students will exhibit responsible personal and social behavior that respects self and others in physical activity settings. The student will value physical activity for health, enjoyment, challenge, self-expression, and/or social interaction.

LIFETIME WELLNESS

Grade Level: 9

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

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LANGUAGE ARTS

ENGLISH I (Standard and Honors*)

Grade Level: 9

Students will learn to demonstrate control of Standard English through grammar, usage, and mechanics. Students will also employ a variety of strategies and resources to determine the definition, pronunciation, etymology, spelling and usage of words and phrases. Students will learn to demonstrate critical listening skills essential for comprehension, evaluation, problem solving, and task completion. Finally, students will summarize, paraphrase, and critique information presented orally by others. This course also provides students with a study of the different genres of world literature, grammar, and composition skills.

ENGLISH II (Standard and Honors*)

Grade Level: 10

Students in this course will demonstrate control of Standard English through grammar, usage, and mechanics, demonstrate critical listening skills essential for comprehension, evaluation, problem solving, and task completion, and summarize, paraphrase, and critique information presented orally by others. Students will also write in a variety of modes for different audiences and purposes, employ various prewriting strategies, and organize ideas into an essay with a thesis statement, well-constructed paragraphs, and transitions. Finally, students will demonstrate knowledge of significant works of world literature and understand the characteristics of various literary genres. This course emphasizes composition skills by reviewing and continuing practice in writing correct and effective sentences, paragraphs, and essays of various kinds. Also in this course, students spend time learning research techniques and writing a documented research paper. Finally, the course provides an in-depth study of *The Tragedy of Julius Caesar*.

ENGLISH III (Standard and Honors*)

Grade Level: 11

This course seeks to integrate the standards of reading, writing, viewing and representing, and speaking and listening through the use of American literature. Students will study a variety of texts including traditional works of literature, practical and persuasive forms of communication that involve speaking and listening skills, and the use of appropriate technology and media forms. The writing portions of this course focus on effective persuasive techniques. The course will all emphasize the communication and critical thinking skills necessary to enable students to thrive in a rapidly changing world.

ENGLISH IV (Standard and Honors*)

Grade Level: 12

This course is a survey of English literature from Beowulf through the 20th century. The course will give a basic knowledge of writers and writings known throughout the civilized world. Composition is also a main component preparing students for college and/or the workforce. Works are introduced in a chronological order to highlight how writings are influenced by the passage of time and changing social and political structures. Literature is used to introduce various creative and informational writing opportunities. This course is also designed to prepare students for college or university level English and literature courses by providing experience in note-taking, writing essay and short-answer responses, participating in classroom and small group discussions, and analyzing and interpreting the written word.

JOURNALISM

Grade Levels: 9, 10, 11, 12

The student will understand and utilize oral, written, and visual communication in the journalistic style. The primary goal of any journalism program should be for students to improve oral and written communication skills. Many high school students seek opportunities to explore career possibilities in the media, and the journalism class helps introduce students to those careers.

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SPANISH I

Grade Levels: 10, 11, 12

Prerequisite: *English I* Students will learn to communicate in basic Spanish, understand Spanish culture on its own terms, and learn the connection between culture and language through examples of culturally appropriate situations and linguistic studies.

SPANISH II

Grade Levels: 10, 11, 12

Prerequisite: *Spanish I* Students will enhance their Spanish communication skills, understand Spanish culture on its own terms, while making comparisons with their own culture, make cross-curricular connections by relating Spanish to other disciplines studied in the school, learn the connection between language and culture through the observation of culturally appropriate communication skills and linguistic studies, and use the language within and beyond the school setting, observing practical applications for the skills they are learning.

MATHEMATICS

ALGEBRA I

Grade Level: 9

Algebra I emphasizes linear and quadratic expressions, equations, and functions. This course also introduces students to polynomial and exponential functions with domains in the integers. Students explore the structures of and interpret functions and other mathematical models. Students build upon previous knowledge of equations and inequalities to reason, solve, and represent equations and inequalities numerically and graphically.

ALGEBRA II

Grade Level: 11

Algebra II emphasizes polynomial, rational and exponential expressions, equations, and functions. This course also introduces students to the complex number system, basic trigonometric functions, and foundational statistics skills such as interpretation of data and making statistical inferences. Students build upon previous knowledge of equations and inequalities to reason, solve, and represent equations and inequalities numerically and graphically.

BRIDGE MATH

Grade Level: 12

Bridge Math is a course intended to build upon concepts taught in previous courses to allow students to gain a deeper knowledge of the real and complex number systems as well as the structure, use, and application of equations, expressions, and functions. Functions emphasized include linear, quadratic and polynomial. Students continue mastery of geometric concepts such as similarity, congruence, right triangles, and circles. Students use categorical and quantitative data to model real life situations and rules of probability to compute probabilities of compound events.

GEOMETRY

Grade Level: 10

Geometry emphasizes similarity, right triangle trigonometry, congruence, and modeling geometry concepts in real life situations. Students build upon previous knowledge of similarity, congruence, and triangles to prove theorems and reason mathematically. This course also introduces students to geometric constructions and circles. Students show a progression of mastery and understanding of the use and application of surface area and volume.

PRECALCULUS-Honors*

Grade Levels: 12

Prerequisite: *Algebra II* *Precalculus* is designed to prepare students for college level STEM focused courses. Students extend their knowledge of the complex number system to use complex numbers in polynomial identities and equations. Topics for student mastery include vectors and matrix quantities, sequences and series, parametric equations, and conic sections. Students use previous knowledge to continue progressing in their understanding of trigonometric

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functions and using regression equations to model quantitative data. **Seniors must earn a Math ACT sub-score of 19 to be eligible.**

SAILS MATH / SAILS MATH Plus*

Grade Level: 12

Prerequisite: *Algebra II* The *Seamless Alignment and Integrated Learning Support (SAILS)* program targets students that have not achieved college readiness benchmarks in math (as evidenced by less than 19 ACT Math subscore) by introducing the college developmental curriculum into the high school senior year. SAILS embeds the Tennessee Board of Regents (TBR) Learning Support competencies into the high school senior year math course utilizing a blended learning model, so that students who complete SAILS are exempt from remedial math courses in college.

SCIENCE

BIOLOGY I

Grade Level: 9

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. Honors level will require more independent learning time, higher mathematical computations, research skills, and writing scientific reports among other skills.

BIOLOGY II

Grades 11-12

Prerequisite: *Biology I*. The academic standards for high school *Biology II* are built on the foundation provided by *Biology I* (a prerequisite course) and are research-based, supported by the National Research Council's Framework for K-12 Science Education. *Biology II* provides students with the opportunity to focus on a particular aspect of life science in more detail while continuing to provide knowledge that is rooted in the same crosscutting concepts and practices utilized throughout all of the sciences. The academic standards for *Biology II* focus on organism classification and evolution with in depth analysis of plants and animals.

CHEMISTRY I

Grade Level: 11

Prerequisites: *Biology I* and *Algebra I* *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. Honors level will require more independent learning time, higher mathematical computations, research skills, and writing scientific reports among other skills.

CHEMISTRY II

Grades 11-12

Prerequisite: *Chemistry I*. The *Chemistry II* standards build on topics that were introduced in *Chemistry I* with increased rigor. Students should explore these advanced chemistry concepts and the seven core concepts (patterns; cause and effect; scale, proportion, and quantity; systems and system models; energy and matter; structure and function; and, stability and change) through laboratory techniques, manipulation of chemical quantities, and advanced problem-solving practices. Within the *Chemistry II* standards, scientific and engineering practices are embedded as a

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means to learn about specific topics identified for the course. Engaging in these practices with current applications will help students become scientifically literate and astute consumers of scientific information.

EARTH & SPACE SCIENCE

Grade Levels: 9, 10, 11, 12

The *Earth and Space Science* course examines the role of Earth's place in the universe, the interplay of Earth's systems, and the interrelationships between Earth's systems and human activity. Inherent in this course is a look at how Earth has changed over time and the dynamics that continue to affect it. As events have impacts on the hydrosphere, biosphere, atmosphere, and geosphere, there are also sphereto-sphere dynamics taking place in the short, medium, and long-term. This is a lab course, with an emphasis on important 21st century critical thinking skills.

PHYSICAL SCIENCE

Grade Level: 10

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

PHYSICS

Grade Levels: 11, 12

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.

SOCIAL STUDIES

ANCIENT HISTORY

Grade Levels: 9, 10, 11, 12

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

CONTEMPORARY ISSUES

Grade Level: 9, 10, 11, 12

Students will use inquiry skills to examine the issues that impact the contemporary world. Students will analyze the historical, cultural, economic, and geographic factors that have elevated certain issues to levels of concern in the United States and around the globe. Students will engage in research and problem solving in order to better understand and assess significant current issues.

ECONOMICS ½ credit

Grade Level: 12

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.

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PSYCHOLOGY

Grade Levels: 9, 10, 11, 12

Students will study the development of scientific attitudes and skills, including critical thinking, problem solving, and scientific methodology. Students will also examine the structure and function of the nervous system in human and non-human animals, the processes of sensation and perception, and life span development. Students will study social cognition, influence, and relations. Students will examine social and cultural diversity and diversity among individuals. Students will study memory, including encoding, storage, and retrieval of memory. Students will also study perspectives of abnormal behavior and categories of psychological disorders, including treatment thereof. Students will elaborate on the importance of drawing evidence-based conclusions about psychological phenomena and gain knowledge on a wide array of issues on both individual and global levels. Throughout the course, students will examine connections between content areas within psychology and relate psychological knowledge to everyday life. Students will explore the variety of careers available to those who study psychology.

SOCIOLOGY

Grade Levels: 9, 10, 11, 12

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.

TENNESSEE HISTORY

Grade Levels: 9, 10, 11, 12

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

U. S. GOVERNMENT and CIVICS ½ credit

Grade Level: 12

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

UNITED STATES HISTORY

Grade Level: 11

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.

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WORLD GEOGRAPHY

Grade Levels: 9, 10, 11, 12

Students will examine the global perspectives, basic concepts, and fundamental questions of geography. Students will focus on the ways through which all places on Earth are interconnected and how the human use of Earth's surface varies over space. Topics studied in the course include physical processes, human populations and migration, regions of the world, resources, and the tools used by modern geographers.

WORLD HISTORY-SDC

Grade Levels: 9

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.

CAREER—TECHNICAL EDUCATION

AGRICULTURE

AGRICULTURAL POWER & EQUIPMENT

Grade Levels: 11, 12

Prerequisite: *Principles of Agricultural Mechanics* *Agricultural Power and Equipment* is an applied course in agricultural engineering with special emphasis on laboratory activities involving small engines, tractors, and agricultural equipment. The standards in this course address navigation, maintenance, repair, and overhaul of electrical motors, hydraulic systems, and fuel-powered engines as well as exploration of a wide range of careers in agricultural mechanics. Upon completion of this course, proficient students will be able to pursue advanced training in agricultural engineering and related fields at a postsecondary institution.

AGRISCIENCE

Grade Levels: 9, 10

Agriscience is an introductory laboratory science course that prepares students for biology, subsequent science and agriculture courses, and postsecondary study. This course helps students understand the important role that agricultural science and technology plays in the twenty-first century. In addition, it serves as the first course for all programs of study in the Agriculture, Food, & Natural Resources cluster. Upon completion of this course, proficient students will be prepared for success in more advanced agriculture and science coursework. **This course counts as a lab science credit toward graduation requirements.**

GREENHOUSE MANAGEMENT

Grade Levels: 10, 11, 12

Prerequisite: *Agriscience* *Greenhouse Management* is an applied-knowledge course designed to prepare students to manage greenhouse operations. This course covers principles of greenhouse structures, plant health and growth,

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growing media, greenhouse crop selection and propagation, and management techniques. Upon completion of this course, proficient students will be equipped with the technical knowledge and skills needed to prepare for further education and careers in horticulture production.

GREENHOUSE MANAGEMENT & INTRO TO PLANT SCIENCE-SDC

Grade Levels: 11, 12

Prerequisite: *Greenhouse Management* This course is designed to emphasize the economic importance of plants and their relationship to agriculture and society. Topics include plant structure, physiology, heredity, factors of the environment in relation to growth, adaptation, management of plants, and utilization of plant products.

LARGE ANIMAL SCIENCE

Grade Levels: 11, 12

Prerequisite: *Small Animal Science* *Large Animal Science* is an applied course in veterinary and animal science for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers anatomy and physiological systems of different groups of large animals, as well as careers, leadership, and history of the industry. Upon completion of this course, proficient students will be prepared for success in the level-four Veterinary Science course and further postsecondary training.

PRINCIPLES OF AGRICULTURAL MECHANICS

Grade Levels: 10, 11, 12

Prerequisite: *Agriscience* *Principles of Agricultural Mechanics* is an intermediate course introducing students to basic skills and knowledge in construction and land management for both rural and urban environments. This course covers topics including project management, basic engine and motor mechanics, land surveying, irrigation and drainage, agricultural structures, and basic metalworking techniques. Upon completion of this course, proficient students will be prepared for more advanced coursework in agricultural mechanics.

VETERINARY SCIENCE

Grade Level: 12

Prerequisite: *Large Animal Science* *Veterinary Science* is an advanced course in animal science and care for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers principles of health and disease, basic animal care and nursing, clinical and laboratory procedures, and additional industry-related career and leadership knowledge and skills. Upon completion of this course, students will be able to pursue advanced study of veterinary science at a postsecondary institution.

BUSINESS TECHNOLOGY

ADVANCED COMPUTER APPLICATIONS--DE

Grades: 10, 11, 12

Prerequisite: *Computer Applications* *Advanced Computer Applications* prepares students to continue postsecondary training in business-related programs, provides advanced training for students pursuing a career in administrative and information support, and supports obtaining an industry certification in specific software applications (such as the Microsoft Office Suite). Course content and projects are meant to simulate workplace scenarios and draw on skills related to communications, operations, management, and teamwork in order to accomplish information management goals. Upon completion of this course, proficient students will be fluent in a variety of information management software applications and will be prepared to sit for the Microsoft Office Specialist (MOS).

BUSINESS COMMUNICATIONS

Grade Levels: 10, 11, 12

Prerequisite: *Intro to Business & Marketing* *Business Communications* is a course designed to develop students' effective oral and electronic business communications skills. This course develops skills in multiple methods of

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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.

BUSINESS MANAGEMENT

Grades 10, 11, 12

Prerequisites: *Introduction to Business & Marketing and Business Communications.* ***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. Local business partnerships are encouraged to provide resources for faculty and students. 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.

COMPUTER APPLICATIONS

Grade Levels: 9, 10, 11, 12

Computer Applications is a foundational course intended to teach students the computing fundamentals and concepts involved in the use of common software applications. Upon completion of this course, students will gain basic proficiency in word processing, spreadsheets, databases, and presentations. In addition, students will have engaged in key critical thinking skills and will have practiced ethical and appropriate behavior required for the responsible use of technology.

INTRODUCTION TO BUSINESS & MARKETING

Grade Levels: 9, 10

Introduction to Business and Marketing is an introductory course designed to give students an overview of the Business Management and Administration, Marketing, and Finance career clusters. The course helps students prepare for the growing complexities of the business world by examining basic principles of business, marketing, and finance in addition to exploring key aspects of leadership, ethical and social responsibilities, and careers. Students' academic skills in communications, mathematics, and economics are reinforced with activities modeled in the context of business topics. Upon completion of this course, proficient students will be equipped with the foundational skills to succeed in any of the Business, Marketing, or Finance programs of study and will be prepared to make an informed decision regarding which pathways they would like to pursue in high school.

PERSONAL FINANCE (1/2 credit)

Grade Levels: 10, 11, 12

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.

FAMILY AND CONSUMER SCIENCE

FAMILY STUDIES

Grade Levels: 10, 11, 12

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Prerequisite: *Introduction to Human Studies Family Studies* is an applied knowledge course that examines the diversity and evolving structure of the modern family. Upon completion of the course, proficient students will have knowledge of 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.

INTRODUCTION TO HUMAN STUDIES

Grade Levels: 9, 10

Introduction to Human Studies is a foundational course for students interested in becoming a public advocate, social worker, dietician, nutritionist, counselor, or community volunteer. Upon completion of this course, a proficient student will have an understanding of human needs, overview of social services, career investigation, mental health, and communication. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study.

LIFESPAN DEVELOPMENT

Grade Levels: 10, 11, 12

Prerequisite: *Introduction to Human Studies Lifespan Development* builds basic knowledge in human growth and development. Upon completion of the course, proficient students will have knowledge of developmental theory, principles of growth, behavior of children from conception through adolescence, adult development and aging, and death and dying. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study.

NUTRITION ACROSS THE LIFESPAN--DC

Grade Levels: 10, 11, 12

Prerequisite: *Introduction to Human Studies Nutrition Across the Lifespan* is for students interested in learning more about becoming a dietitian, nutritionist, counselor, or pursuing a variety of scientific, health, or culinary arts professions. Upon completion of this course, proficient students will understand human anatomy and physiological systems, nutrition requirements, as well as social, cultural, and other impacts on food preparation and integrity. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study.

WORK-BASED LEARNING

SERVICE LEARNING (1 or 2 semesters)

Grade Level: 12

Service-Learning is designed to place students in new situations where they apply their academic, technical, and social skills to serve others. Students also research careers and develop and strengthen job skills through job-shadowing experiences. Upon completion of this course, students will be able to structure an unstructured or ambiguous problem, connect personal development with academic attainment, and demonstrate citizenship and leadership skills. Students will also understand how their service-learning experiences fulfill an authentic need in the community and develop a portfolio of work that documents their discovery process and growth.

WORK-BASED LEARNING (1 or 2 semesters)

Grade Level: 12

Work-based learning (WBL) is a proactive approach to bridging the gap between high school and high-demand, high-skill careers in Tennessee. Students build on classroom-based instruction to develop employability skills that prepare them for success in postsecondary education and future careers. Through experiences like internships, apprenticeships, and paid work experience, students may earn high school credit for capstone WBL experiences. **WBL can count as the completer course for a CTE Program of Study.**

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TENNESSEE COLLEGE of APPLIED TECHNOLOGY--HARTSVILLE ***Tri-County Extension Campus at Red Boiling Springs***

Students will learn a trade at TCEC while earning dual enrollment post-secondary certification hours through TCAT-Hartsville. Students may earn 2 credits each semester for a total of 4 credits per year. Visit www.tcathartsville.edu for more information regarding post-secondary opportunities.

AUTO MECHANICS AND LIGHT REPAIR

Grade Levels: 11, 12

The aim of this program is to provide trainees with a thorough understanding of the methods of servicing and repairing automotive vehicles. Trainees are taught to use the proper factory-approved methods of servicing, repairing, and maintaining vehicles. Training includes learning to make proper diagnosis using test equipment, hand tools, special equipment, precision measuring tools, and service manuals and specifications.

COSMETOLOGY

Grade Levels: 10, 11, 12

Personal beauty service is recognized as a necessity by most people today, and performance of this service can be satisfactory rendered only by operators who possess the skills and knowledge of the trade and who are adept at social courtesies. A state license is required for the practice of beauty culture, and a formal examination must be passed before this license can be obtained. State registration is required for trainees who, by their registration, become apprentices for the required 1500 clock hours of study of physiology, chemistry, math, and other technical information pertaining to the trade. The laboratory and classroom work is supplemented by training and practical experience in accepted practices relative to the hair, scalp, skin, and nails.

CULINARY ARTS

Grade Levels: 10, 11, 12

The mission of the Culinary Arts program is to provide the opportunity to build knowledge, skills, and attitudes that are essential for successful entry-level employment in the food service field through technical instruction and training. This program is designed to meet the educational needs of individuals desiring to work as chefs and head cooks. Students are involved in food services, sanitation, food and safety, nutrition and menu planning, as well as administrative/personnel management. The program prepares graduates for articulation into a post-secondary curriculum. Expected employment options include full-service restaurants, limited-service eating places, and traveler accommodation.

MACHINING TECHNOLOGY

Grade Levels: 10, 11, 12

The work of machine tool operators, machinists, tool and die makers, industrial maintenance personnel and those in related occupations requires skill in machining metal by such machine tools as milling machines, lathes, grinders, drill presses, CNC milling machines, EDM machines and the ability to use precision measuring tools. The course in machine shop is designed to give students experience on a variety of machine tools similar to those on which they will work after graduation. Instruction is given in related blueprint reading and mathematics, precision measuring, and such basic metallurgy as properties of metals, their workable characteristics, best treatment of metals, and relative hardness.

MECHATRONICS

Grade Levels: 10, 11, 12

This program includes classroom and "hands-on" experience in electronics, electrical, pneumatics, hydraulics, motor controls, programmable controllers, robotics, machine shop, and related math. Students completing this program are prepared to perform at entry level in a typical industrial environment.

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NURSING SERVICES

Grade Levels: 11, 12

The mission of the Health Science program is to provide the opportunity to build the knowledge, skills, and attitudes that are essential for successful entry-level employment in the allied health field through technical instruction and training. The Health Science program is designed to provide students with adequate knowledge of health care careers and supply competent trained workers from high school for entrance into post-secondary health care programs. It will recognize health care needs and provide students with updated information on new and innovative technology in health care. Successful completion of the Health Science program prepares students to apply for post-secondary programs.

RESIDENTIAL AND COMMERCIAL CONSTRUCTION

Grade Levels: 10, 11, 12

The mission of the General Building Trades program is to provide the opportunity to build knowledge, skills, and attitudes that are essential for successful entry-level employment in the construction trades through technical instruction and training. This program provides the student with the fundamentals of carpentry, residential electrical wiring, residential plumbing, and block and brick laying. Instruction methods include classroom lecture, audiovisual presentation, and extensive live work projects on actual construction projects.

WELDING

Grade Levels: 10, 11, 12

Students will learn the various basic and advanced welding/pipefitting techniques that are common in the industries: Shielded Metal, Gas Metal, Gas Tungsten and Flux Cored Arc Welding, cutting techniques, grinding, metal preparation, symbols and blueprint reading, metallurgy, layout, fabrication, pipe/valves/fitting installation, power tools, and measurement techniques.

MISCELLANEOUS ELECTIVE COURSES

TRANSITION

Grade: 10, 11

This course provides for individual instruction to meet social, behavioral, and transitioning needs. This class will focus on the social and behavioral skills our students need to be successful at school and beyond. They will learn strategies needed to be more productive and successful in high school and as they transition into a job or college. Our goal is to provide examples on how to be ready for what lies ahead after high school. This begins now in their high school career.

Students are placed in this class based on IEP team decision.

YEARBOOK (Pass/Fail course)

Grade Level: 10, 11, 12

Students must apply in early spring to work on the Yearbook staff.

RED BOILING SPRINGS HIGH SCHOOL

COURSE DESCRIPTIONS

***Indicates 5-point class.**

Courses included in this document may not be offered every year.

EARLY POST-SECONDARY OPPORTUNITIES

DUAL ENROLLMENT

---Courses offered through Volunteer State Community College---

AMERICAN HISTORY I (HIST 2010)

AMERICAN HISTORY II (HIST 2020)

COLLEGE ALGEBRA (MATH 1130)

ENGLISH COMPOSITION I (ENGL 1010)

ENGLISH COMPOSITION II (ENGL 1020)

INTRODUCTION TO ART (ART 1035)

INTRODUCTION TO MUSIC (MUS 1035)

INTRODUCTION TO PSYCHOLOGY (PSYC 1030)

INTRODUCTION TO SOCIOLOGY (SOCI 1010)

INTRODUCTORY STATISTICS (MATH 1530)

PRECALCULUS I (MATH 1710)

PUBLIC SPEAKING (COMM 2045)

---Courses offered through Tennessee College of Applied Technology-Hartsville---

ADVANCED COMPUTER APPLICATIONS

All Tri-County Extension Campus programs

STATE DUAL CREDIT

INTRODUCTION TO PLANT SCIENCE (AGRI 1030)