

BATH COUNTY SCHOOL BOARD

AGENDA ITEM: INFORMATION { } ACTION { X } CLOSED MEETING { }

SUBJECT: SUPERINTENDENT’S REPORT – PRESENTATIONS/ INFORMATION

2018-2019 BCHS Program of Studies – Mike Perry

BACKGROUND: The Program of Studies for SY2018-2019 is included for approval.
Dr. Perry will provide an overview and answer any questions you may have.

RECOMMENDATION: Recommend approval of the 2018-2019 Program of Studies to facilitate scheduling for the next school year.

Bath County High School
2018-19 Proposed New Course Offerings

CAREER/TECHNICAL COURSES

EIGHTH GRADE CAREER INVESTIGATION/EXPLORATORY 9068– 0 Credit

This course allows students to explore career options, begin investigating career opportunities and develop study skills. Students assess their roles in society, identify their roles as workers, analyze their personal assets, complete a basic exploration of career clusters, select career pathways or occupations for further study, and create an Academic and Career Plan based on their academic and career interests. This course also helps students identify and demonstrate the workplace skills that employers desire in their future employees.

Prerequisite: Required

Grade 8

BUSINESS MANAGEMENT/ADMINISTRATION AND INFORMATION TECHNOLOGY
CAREER CLUSTERS

COMPUTER INFORMATION SYSTEMS ADVANCED - 6615 (18 wks) ½ Credit or 6613 (36 wks) 1 Credit

Students apply problem-solving skills to real-life situations through advanced integrated software applications, including printed, electronic, and Web publications. Students work individually and in groups to explore advanced computer maintenance activities, Web site development, programming, networking, emerging technology, and employability skills. (FBLA)

Prerequisite: Computer Information Systems

Grades 10-12

MEDICAL SYSTEMS ADMINISTRATION 6731 (18 wks) ½ Credit or 6730 (36 wks) 1 Credit

Students wishing to gain employment in the health care field may take this course to learn how to use medical terminology and apply administrative procedures necessary to be productive employees in a health care environment. Students will learn how to manage office activities, enhance communication skills, identify legal and ethical issues in health care practices, manage financial functions, and enhance employability skills. (FBLA)

Prerequisite: Recommended demonstration of touch keyboarding skills.

Grades 10-12

HUMAN SERVICES CAREER CLUSTER

FAMILY RELATIONS - 8224 (18 wks) ½ Credit or 8225 (36 wks) 1 Credit

Students enrolled in Family Relations focus on analyzing the significance of the family; nurturing human development in the family throughout the life span; analyzing identifying factors that build and maintain healthy family relationships; developing communication patterns that enhance family relationships; dealing effectively with family stressors and conflicts; managing work and family roles and responsibilities; analyzing social forces and conditions that influence families across the life span; and cultivating the safety and well-being of the family. Critical thinking, practical problem solving, and entrepreneurship opportunities within the area of family responsibilities and services are emphasized. Instructors highlight the basic skills of mathematics, science, and communication when appropriate.

Prerequisite: None

Grades 9-12

INDEPENDENT LIVING - 8214 (18 wks) ½ Credit or 8219 (36 wks) 1 Credit

Students in Independent Living build life skills focusing on establishing positive relationships, balancing work and family life, investigating careers, making responsible consumer choices, applying nutrition and wellness knowledge, and studying child development and parenting.

Prerequisite: None

Grades 9-12

INDIVIDUAL DEVELOPMENT - 8209 (18 wks) ½ Credit or 8210 (36 wks) 1 Credit

Individual Development students focus on cultivating positive self-esteem; developing skills to build healthy relationships with family, peers, and community members; managing stress and conflict; and preparing to become college- and career-ready.

Prerequisite: None

Grades 9-12

INTRODUCTION TO HOSPITALITY, TOURISM, AND RECREATION - 8258 (18 wks) ½ Credit or 8259 (36 wks) 1 Credit

Students enrolled in Introduction to Hospitality, Tourism, and Recreation focus on developing professional skills and using emerging technologies to prepare for employment in this global industry, rich in diverse career opportunities. The program includes instruction in the industries of lodging, food and beverage, travel and tourism, and recreation and fitness.

Prerequisite: None

Grades 9-12

NUTRITION AND WELLNESS - 8228 (18 wks) ½ Credit or 8229 (36 wks) 1 Credit

Students enrolled in Nutrition and Wellness focus on understanding wellness, investigating principles of nutrition, using science and technology in food management, ensuring food safety, planning menus and preparing food, and exploring careers in the field of nutrition and wellness. Critical thinking and practical problem solving are emphasized.

Prerequisite: None

Grades 9-12

INFORMATION TECHNOLOGY CAREER CLUSTER

COMPUTER SYSTEMS TECHNOLOGY II 8623 – 2 Credit

Students will gain a basic understanding of emerging technologies including unified communications, mobile, cloud, and virtualization technologies. The course prepares students for postsecondary education and training and a successful career in information technology. Upon successful completion of the course, students may qualify to take CompTIA's A+ and Network+ certification exams.

Prerequisite: Compute Systems Technology I

Grades 10-12

CYBERSECURITY FUNDAMENTALS 6302 - 1 Credit

Cybersecurity affects every individual, organization, and nation. This course focuses on the evolving and all-pervasive technological environment with an emphasis on securing personal, organizational, and national information. Students will be introduced to the principles of cybersecurity, explore emerging technologies, examine threats and protective measures, and investigate the diverse high-skill, high-wage, and high-demand career opportunities in the field of cybersecurity.

Prerequisite: None

Grades 9-12

CYBERSECURITY SOFTWARE OPERATIONS 6304 - 1 Credit

Cybersecurity Software Operations is designed to teach many aspects of computer support and network administration. Students learn networking concepts, from usage to components, and create peer-to-peer network systems and client server networks. Students learn how to install and configure network cards and connect them to networks; to install the operating systems; to create, set up, and manage accounts; to load software; and to establish, implement, and maintain network integrity security plans. This course may cover software-based network operating systems, such as Windows Server or Linux, to prepare students with a foundation in computer network administration.

Prerequisite: Cybersecurity Fundamentals and Recommended demonstration of touch keyboarding skills.

Grades 10-12

ENGINEERING & TECHNOLOGY CAREER CLUSTER

ENERGY AND POWER 8495 - (18 wks) ½ Credit or 8448 (36 wks) 1 Credit

In this course, students analyze energy sources and explore the generation, transmission, and distribution of electricity. The course provides math, science, and technical writing skills through hands-on application.

Prerequisite: None

Grades 10-12

RENEWABLE ENERGY 8408 - 1 Credit

This course will provide fundamentals and in-depth application of various renewable energies. Students will explore select renewable energy technologies, will gain hands-on experience in their design and function, and will practice installation skills.

Prerequisite: None

Grades 10-12

TRANSPORTATION, DISTRIBUTION & LOGISTICS CAREER CLUSTER

ENTREPRENEURSHIP EDUCATION 9093 - 1 Credit

This course introduces students to the exciting world of creating, owning, and launching their own business. Students will learn concepts and techniques for planning an innovative business and living the entrepreneurial lifestyle. Emphasis will be placed on owning and operating an automotive repair facility, reinforcing already learned concepts from Automotive Technology courses. Students will be task with the day to day operations of an instructor facilitated job list, while completing a curriculum that prepares students for success in business ownership.

Prerequisite: Course taken in conjunction with Automotive Technology III AND specific Business & Administration courses. (See SEQUENCES FOR CTE CERTIFICATES)

Grades 11-12

ACADEMIC

FINE ARTS

DANCE I - 1 Credit

The standards for Dance I provide students with a survey of the dance arts. Emphasis is placed on physical and creative skill development, and opportunities to experience and appreciate dance performance are provided. Historical and cultural studies expand students' understanding of dance as a vital contribution to society while helping them develop cognitive foundations from which to evaluate dance. Students become familiar with the various dance-related professions and the ways in which they function together to create dance productions.

Prerequisite: NONE

Grades 9-12

HIGH SCHOOL INSTRUMENTAL MUSIC, ADVANCED LEVEL – 1 CREDIT

The goal of the instructional objectives for High School Instrumental Music, Advanced Level is to enable students to acquire more advanced technical and expressive skills and demonstrate a mature level of musicianship. Students demonstrate a variety of articulations, bowings, positions, alternate fingerings, and vibrato while playing the required scales, arpeggios, and rudiments in more complex rhythmic patterns. Percussion students become more proficient in the use of timpani, mallet instruments, and auxiliary instruments. Through playing, improvising, and writing, students create expressive rhythmic and melodic variations. Students research career options in music. They perform music at Solo Literature Grade Levels 4 and 5 of the Virginia Band and Orchestra Directors Association (VBODA). Students discuss and evaluate characteristics of personal performances and compositions, as well as the works of others. They discuss relationships between musical concepts and the concepts of other disciplines, and they are involved in exploring various cultures, styles, composers, and historical periods. Students are provided with opportunities to participate in local, district, regional, and state events.

Prerequisite: Presently enrolled in Band

Grades 10-12

*Bath County High School
and
Mertz Career and Technical Education Center*

Program of Studies, 2018 -2019

Dear BCHS Students and Parents,

Our 2018-2019 Bath County High School Program of Studies offers a wide variety of opportunities designed to offer multiple pathways and connections to post-secondary education and ultimately careers.

It is essential that all students pay particular attention to the outlined graduation and SOL requirements. The Virginia Department of Education has mandated many changes over the last few years. If any of this information is unclear, please feel free to contact BCHS Counselor Ms. Ervin for assistance.

As we prepare our students for a prosperous future, please remember that the graduation requirements are the minimum expectation and do not take full advantage of the rich course offerings here at Bath County High School. Colleges, universities, trade schools and employers are all seeking students who are lifelong learners. Employers want employees who not only know their work, but, know how to work. Every student needs to build the strongest academic foundation possible. Students should also vigorously pursue the elective opportunities made available to them, especially those in our Career and Technical Education programs. Many of these programs can lead to industry certification.

Every effort will be made to provide the courses the student and parent have selected. However, demand for courses may cause students to be moved to other selections on their course selection sheet. Also, graduation requirements will be adhered to so that each student will have the same opportunity to graduate with the diploma type they wish to pursue.

Thank you for your interest in and support of Bath students and Bath County High School.

Sincerely,

A handwritten signature in cursive script that reads "Michael Perry". The signature is written in black ink and is positioned to the left of the typed name below.

Dr. Michael Perry,
Principal, Bath County High School and Director Mertz Career and Technical Education Center

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Bath County High School Mission Statement

The mission of Bath County High School is to provide a nurturing, accepting environment that recognizes individual qualities and needs and enables students to become self-directed, and lifelong learners.



PROGRAM OF STUDIES

Introduction

Beginning with the Eighth Grade class of 2013-2014 each student will have an Academic & Career plan on file with the Guidance Office. Starting in the Seventh Grade, students begin mapping out their high school and future plans. Ultimately, during the Eighth Grade we capture this formally in the student's Academic and Career Plan. Each year goals change and new interests develop, therefore, the Academic & Career Plan is a document that changes with the plans of the student and their parents. Students are encouraged to work on this with their parents. Activities are presented each year to assist the student in preparing for their future career path such as a Career and College Fair, career interest inventories, a research paper dealing with the student's area of choice, creating a resume and potential field trips to college and vocational centers.

Please note the addition of the revised Graduation Requirements effective for the Graduating Class of 2022. The graduation requirements for the Graduating Classes of 2018-2021 are also included. Graduation Requirements are located on pages 28-32 in this Program of Studies.

To follow is a listing of the courses that BCHS offers and the course description. We will also be incorporating a more formalized scheduling process. Also, the Department of Education has created new outlines and requirements for new diploma types and credits required for these diplomas. We have listed these requirements for your reference.

All new courses listed are subject to VDOE approval. This is particularly applicable to new CTE offerings.

**BATH COUNTY HIGH SCHOOL
COURSE OFFERINGS BY GRADE LEVEL**

8TH GRADE COURSES

English

English 8
English 8 Advanced Studies

Math

Math 8
Pre-Algebra
Algebra I

Physical Science 8

Social Studies

World Geography

Health/PE 8

Exploratory

ELECTIVES

Art I
Band
Information Technology Fundamentals
Math Lab
Read 180
Spanish I

9th GRADE COURSES

English

English 9
English 9 Advanced Studies

Math

Pre-Algebra
Algebra I
Geometry

Earth Science

Social Studies

World Geography
World History I

Health/PE 9

ELECTIVES

Art I, II
Band
Ceramics
Math Lab
Read 180
Spanish I, II
Yearbook

CTE ELECTIVES

Transportation

Auto I

Business & Information Technology

Accounting
Computer Information Systems
Cyber Security Fundamentals
Design, Multimedia & Web Technology
Programming
Word Processing

Architecture & Construction

Carpentry I
Electricity I

Hospitality/Family & Consumer Sciences

Culinary Arts I
Intro. to Culinary Arts
Family Relations
Independent Living
Individual Development
Intro. to Hospitality/Tourism/Recreation
Nutrition & Wellness

Technology/Engineering

Information Technology Fundamentals
Technical Drawing & Design

10th GRADE COURSES

English

English 10
English 10 Advanced Studies

Math

Algebra I
Geometry
Algebra Functions & Data Analysis
Algebra II

Biology

Social Studies

World History I
World History II
Economics & Personal Finance

PE 10/Driver's Education

ELECTIVES

Art I, II, III
Band
Ceramics
Math Lab
Read 180
Sociology/Psychology
Spanish I, II, III
Yearbook
Advanced Band

CTE ELECTIVES

Transportation

Auto I, II

Business & Information Technology

Accounting
Advanced Accounting
Business Management
Computer Information Systems
Advanced Computer Information Systems
Cyber Security Fundamentals
Cybersecurity Software Operations
Design, Multimedia & Web Technology
Medical Systems Administration
Programming
Advanced Programming
Principles of Business Marketing
Word Processing

Architecture & Construction

Carpentry I, II
Electricity I, II

Hospitality/Family & Consumer Sciences

Culinary Arts I, II
Intro. to Culinary Arts
Family Relations
Independent Living
Individual Development
Intro. to Hospitality/Tourism/Recreation
Nutrition & Wellness

Science/Technology/Engineering

Energy & Power
Engineering Drawing & Design
Information Technology Fundamentals
Technical Drawing & Design
Renewable Energy

11th GRADE COURSES

English

English 11
English 11 Advanced Studies

Math

Algebra I
Geometry
Algebra Functions & Data Analysis
Algebra II
Computer Math
Math Analysis (Pre-Calculus)

Science

Biology II: Ecology
Chemistry

Social Studies

VA/US History
AP US History
Economics & Personal Finance

ELECTIVES

Advanced PE
Art I, II, III, IV
Band
Ceramics
Math Lab
Read 180
Sociology/Psychology
Spanish I, II, III
Yearbook
Dance
Advanced Band

CTE ELECTIVES

Transportation

Auto I, II, III
Entrepreneurship Education

Business & Information Technology

Accounting
Advanced Accounting
Business Management
Computer Information Systems
Advanced Computer Information Systems
Cyber Security Fundamentals
Cybersecurity Software Operations
Design, Multimedia & Web Technology
Programming
Advanced Programming
Medical Systems Administration
Principles of Business Marketing
Word Processing

Architecture & Construction

Carpentry I, II, III
Cabinetmaking I
Electricity I, II, III

Hospitality/Family & Consumer Sciences

Culinary Arts I, II
Intro. to Culinary Arts
Family Relations
Independent Living
Individual Development
Intro. to Hospitality/Tourism/Recreation
Nutrition & Wellness

Science/Technology/Engineering

Energy & Power
Engineering Drawing & Design
Information Technology Fundamentals
Technical Drawing & Design
Renewable Energy

12th GRADE COURSES

English

English 12
English 12 Advanced Studies

Math

Algebra I
Geometry
Algebra Functions & Data Analysis
Algebra II
Computer Math
Math Analysis (Pre-Calculus)
Calculus

Science

Anatomy & Physiology
Biology II: Ecology
AP Biology (Virtual Virginia)
Chemistry
Physics

Social Studies

VA/US Government
Economics & Personal Finance

ELECTIVES

Advanced PE
Art I, II, III, IV
Band
Ceramics
Math Lab
Read 180
Sociology/Psychology
Spanish I, II, III, IV
Yearbook
Dance
Advanced Band

DSLCC Dual Enrollment

Political Science
Speech
Psychology
Welding & Advanced Manufacturing

CTE ELECTIVES

Transportation

Auto I, II, III
Entrepreneurship Education

Business & Information Technology

Accounting
Advanced Accounting
Business Management
Computer Information Systems
Advanced Computer Information Systems
Cyber Security Fundamentals
Cybersecurity Software Operations
Design, Multimedia & Web Technology
Programming
Advanced Programming
Medical Systems Administration
Principles of Business Marketing
Word Processing

Architecture & Construction

Carpentry I, II, III
Cabinetmaking I, II
Electricity I, II, III

Hospitality/Family & Consumer Sciences

Culinary Arts I, II
Intro. to Culinary Arts
Culinary Specializations
Family Relations
Independent Living
Individual Development
Intro. to Hospitality/Tourism/Recreation
Nutrition & Wellness

Science/Technology/Engineering

Energy & Power
Engineering Drawing & Design
Information Technology Fundamentals
Technical Drawing & Design
Renewable Energy

ACADEMIC COURSES

ENGLISH

READ 180 – 1 Credit

This course provides intensive instruction on reading skills including vocabulary, fluency, and comprehension. Students will learn to read for specific purposes as well as evaluate text.

Prerequisite: Staff or IEP Committee Referral

Grades 8-12

ENGLISH 8 - 0 Credit

Students will have an understanding of the parts of speech and how they are applied. Students will apply these skills to writing logically organized papers. Students will also obtain knowledge of literary terms and apply these to the analysis and evaluation of poetic and literary works. Students will read a variety of novels and dramatic selections throughout the term and be evaluated on the basis of tests, oral reports, and written compositions. Study of Latin and Greek roots is utilized to enhance vocabulary comprehension.

Prerequisite: None

Grade 8

ADVANCED STUDIES ENGLISH 8 - 0 Credit

Students in English 8 AS will master the same skills as students in English 8 with the addition of college level vocabulary, critical thinking skills, and major literary works. (Students are expected to have mastered the eight basic parts of speech upon entering the class and will be tested on this material within the first semester.) Students will read outside novels thematically linked to classroom activities taken from contemporary adolescent literature. Students will complete a research paper using MLA format. Study of Latin and Greek roots is utilized to enhance vocabulary comprehension.

Prerequisite: Teacher Recommendation AND passing score on 6th and 7th grade Reading SOL OR comparable state test if a transfer student.

Grade 8

ENGLISH 9 - 1 Credit

Students will expand their knowledge of sentence structure and mechanics. This knowledge will enhance all aspects of the student's creative and expository writing. Students will complete an expository/persuasive research paper using MLA format. Students will use previous knowledge of literary works to increase and synthesize anthologized literary works. Students will read a variety of novels and dramatic selections throughout the term and be evaluated on the basis of tests, oral reports, and written compositions. Study of Latin and Greek roots is utilized to enhance vocabulary comprehension.

Prerequisite: English 8

Grade 9

ADVANCED STUDIES ENGLISH 9 - 1 Credit

Students in advanced studies will master the same skills as students in English 9 with the addition of the study of college vocabulary, critical thinking skills, and major literary works. Students will write a persuasive research paper using MLA format. Students will read outside novels thematically linked to classroom activities taken from Shakespeare and contemporary adolescent literature. Students will study the history of the English language leading to the understanding and use of Latin and Greek roots, prefixes, and suffixes.

Prerequisite: English 8 AND Teacher Recommendation AND passing score on both the 8th grade Reading and Writing SOLs AND a grade of (C) or above in English 8 or English 8 Advanced Studies.

Grade 9

ENGLISH 10 - 1 Credit

Students will continue to develop the knowledge of Standard English usage. Students will also explore the structure of essays including well organized thesis statements and conclusions. Students will continue to read various literary genres focusing on all aspects of literary techniques as well as figurative language. Students will complete a persuasive research paper using MLA format. Study of Latin and Greek roots is utilized to enhance vocabulary comprehension.

Prerequisite: English 9

Grade 10

ADVANCED STUDIES ENGLISH 10 - 1 Credit

Students in advanced studies will master the same skills as students in English 10 with the addition of college vocabulary and comprehensive reading skills covering a wider scope and breadth of literary works. Students will complete a persuasive research paper using MLA format. Students continue to study Latin and Greek roots, prefixes and suffixes and apply this knowledge to encoding and decoding vocabulary words. Students will read outside novels thematically linked to classroom activities taken from Shakespeare and contemporary adolescent literature.

Prerequisite: Teacher recommendation AND grade of (C) or above in English 9 or English 9 Advanced Studies. Grade 10

ENGLISH 11 - 1 Credit

Students will apply previous grammatical knowledge to writing all types of essays in a logically organized manner. Students will critically analyze works of American literature and their correlation to historical events. Students will read a variety of novels and dramatic selections throughout the term and be evaluated on the basis of tests, oral reports, and written compositions. A career research paper will be completed using MLA format. Study of Latin and Greek roots is utilized to enhance vocabulary comprehension.

Prerequisite: English 10 Grade 11

ADVANCED STUDIES ENGLISH 11 - 1 Credit

Students in Advanced studies will master the same skills as students in English 11 but with a wider scope of literary works and vocabulary. Students will complete a career research paper using MLA format. Students will read outside novels thematically linked to American history and classroom activities. Authors such as Hawthorne, Melville, Crane, Wilder, etc. contribute to the anticipated level of required college reading. Students will also write literary analysis responses to previously studied literary works, poetry, and musical selections.

Prerequisite: Teacher Recommendation AND grade of (C) or above in English 10 or English 10 Advanced Studies. Grade 11

ENGLISH 12 - 1 Credit

Students will write critical responses to literary works. Students will work on correctly formatted essays for college applications as well as career readiness skills (resumes, interviewing skills, etc.). Students will study British literature and analyze literary techniques. Students will read a variety of novels and dramatic selections throughout the term and be evaluated on the basis of tests, oral reports, and written compositions. Students will complete a research paper using APA format to prepare for college. Students will also complete a Senior project.

Prerequisite: English 11 Grade 12

ADVANCED STUDIES ENGLISH 12 - 1 Credit

Students will complete the same skills as students in English 12 with a wider scope of literary works studied. They will study British literature and analyze literary techniques. Previous knowledge of the history of the English language will help students understand the evolution of Modern English. Students will work on correctly formatted college essays as well as career readiness skills (resumes, interviewing skills, etc.). Chaucer, Shakespeare, Shelly, Keats, etc. contribute to the anticipated level of required college reading. Students will complete a research paper in APA format to prepare for college. In addition, students will complete a Senior project.

Prerequisite: Teacher Recommendation AND passing score on both the EOC Reading and EOC Writing SOLs AND a grade of (C) or above in English 11 or English 11 Advanced Studies. Grade 12

MATH

MATH 8 - 0 Credits

Objectives for this course are a continuation of the elementary K-8 sequence and will include all Math 8 SOL's. Problem solving is a major focus of this course. Topics will include, but are not limited to, proportions, percents, angles, volume and area, geometric transformations, probability and statistics, solving and graphing linear equations. The student will also use tables, graphs and rules to describe relationships, measurement, fractions, and decimals, positive and negative numbers. The Math 8 SOL Test will be given upon completion of this course.

Prerequisite: None Grades 8

Pre-Algebra - 0 Credits

The objectives will include Math 8 standards of learning and basic Algebra standards of learning, which include, but are not limited to solving equations and inequalities, statistics, and linear equations. For eighth grade students, this course will serve as an introduction to the concepts found in Algebra I. Pre-Algebra is also offered as a bridge from Math 8 to Algebra I during the ninth grade year.

Prerequisite: A minimum Math 7 SOL test score of 500 AND Teacher Recommendation Grades 8 or 9

ALGEBRA I - 1 Credit

Algebra I is the basic foundation for the advanced mathematics program. Students are encouraged to use Algebra as a tool for representing and solving a variety of practical problems. Tables and graphs are used to interpret algebraic expressions, solve equations and inequalities and analyze functions. The TI-83 calculator is an integral part of the Algebra I curriculum, which is based upon the Virginia course objectives endorsed by the Virginia Department of Education. The Algebra I SOL must be taken.

Prerequisite: Math 8 OR Pre-Algebra OR pass an SOL admissions test given by a BCHS faculty member prior to class scheduling AND receive a minimum score of 400 on said test. Grades 8 or 9

GEOMETRY - 1 Credit

Geometry offers students a means of describing, analyzing, and understanding aspects of their world. Geometric modeling, visualizing, and spatial reasoning can be used to solve many kinds of problems. Coordinate geometry and other representational systems allow locations to be specified and described. Geometry also focuses on the development of reasoning and proof, using definitions and axioms. **The Geometry SOL must be taken.**

Prerequisite: Algebra I

Grades 9-12

ALGEBRA, FUNCTIONS AND DATA ANALYSIS - 1 Credit

Provides an opportunity for mathematical ideas to be developed in the context of real-world problems. Students will learn to attach functional algebra to statistics, allowing for the possibility of standardizing and analyzing data through the use of mathematical models. Students will use transformational graphing and the regression capabilities of graphing calculators to find regression equations, and they will use them to analyze data and to predict the placement of data points between and beyond given data points.

Prerequisite: Algebra I and Geometry I. This class is a pre-cursor to Algebra II.

Grades 10-12

COMPUTER MATHEMATICS - 1 Credit

This course will utilize the graphing calculator to explore mathematical problem solving through computer programming. Students will analyze data in charts, graphs and tables; design, write and test computer programs that define constraints of a given problem; design and implement input/output phases of a program; define simple variable data types; translate mathematical expressions into a computer statement; implement conditional statements (if/then/else); and implement loops and iterative loops.

This course will be taken in conjunction with any of the advanced level CTE courses. This course is valid for Standard diploma candidates who are specializing in one of the CTE career paths.

Prerequisite: Algebra I and Geometry

Grades 11-12

ALGEBRA II - 1 Credit

Algebra II provides a systematic way to represent mathematical relationships and analyze change. Students need to understand the concepts and symbols of algebra, the structures that govern the manipulation of the symbols, and ways that the symbols can be used to record ideas and events. Students will explore patterns that are exponential and logarithmic and continue to develop the notion of families of functions. **This course is required for the advanced studies diploma. The Algebra II SOL must be taken.**

Prerequisite: At least a (C) in previous math classes and a verified credit in Algebra I OR Geometry.

Grades 10-12

MATH ANALYSIS (PRE-CALCULUS) - 1 Credit

Mathematical Analysis serves as a preparatory course for a study of calculus. Mathematical analysis extends the study of families of functions and also includes sequences and series, trigonometry, polar equations, vectors, and parametric equations. An intuitive introduction to the concept of the limit of an algebraic function may be enhanced with algebraic methods or numerical substitution. *This course is specifically designed for students planning to pursue collegiate study of math, science or engineering.*

Prerequisite: At least a (C) average in Algebra II AND Teacher Recommendation.

Grades 11 or 12

CALCULUS - 1 Credit

This course is intended for students who have a thorough knowledge of college preparatory mathematics. Students will do extensive work with graphing, limits, the derivative and integration. Use of a graphing calculator is required for this class.

Prerequisite: At least a (C) average in Math Analysis AND Teacher Recommendation.

Grade 12

MATH LAB – 0 Credit

This laboratory course provides the student with assistance in elementary algebra or geometry skills. It is recommended for students who are encountering difficulties in the areas of math anxiety, basic skills, problem solving, algebraic manipulations and/or algebra concepts. This course is taken concurrently with either Math 8, Pre-Algebra, Algebra or Geometry.

Prerequisite: Teacher Recommendation

Grades 8-12

SCIENCE**PHYSICAL SCIENCE - 0 Credit**

This course provides an overview of basic physical and chemical concepts. Topics include atom structure, the periodic table, types of chemical reactions, motion, waves, electricity, and magnetism. Students also conduct guided activities as well as collect data and draw conclusions.

Prerequisite: None

Grade 8

EARTH SCIENCE - 1 Credit

Earth Science is divided into four areas of study. The astronomy unit provides an opportunity to study the origin, composition and structure of the universe and the position of earth in space. The meteorological unit provides a study of the forces affecting our weather and their effect on the human environment. In the oceanography unit, the student learns to identify the dynamic forces affecting the movements of ocean water and the physical features found on the ocean floor. The unit of geology introduces rocks, minerals and the forces which shape our planet. Students are provided activities to promote mastery and understanding of the concepts of science presented in the four basic units of study. Writing activities and varied forms of instruction are used to enhance student achievement.

Prerequisite: Physical Science

Grade 9

BIOLOGY - 1 Credit

This course will explore the fundamental characteristics of life from the molecular level to the ecosystem level. Emphasis is placed on the unity, diversity, and interaction and interdependence of living things. Laboratory and inquiry experiences are a necessary component of biology and many topics will involve issue analysis by students with respect to practical and ethical concerns of science, technology and society.

Prerequisite: Earth Science

Grade 10

BIOLOGY II: Ecology - 1 Credit

Ecology is the study of the interaction of living organisms with one another and with their nonliving environment and matter. In this course, students will learn the basic ecological principles that govern nature. Students will also apply their knowledge to better understand important environmental issues. The ultimate goal is for students to gain the science knowledge necessary to analyze issues concerning humans and their interaction with the environment. Major topics include energy flow, bio-geochemical cycles, biotic and abiotic influences on communities of living things, population dynamics and an in-depth study of aquatic and terrestrial ecosystem pollution.

Prerequisite: Earth Science and Biology

Grades 11 or 12

CHEMISTRY - 1 Credit

Chemistry deals with the structure and composition of matter that constitutes living things and their environment. It involves an extensive study of atomic structure and the interrelationships among atoms. Students will learn to predict products of given reactants and recognize reaction types. Emphasis is placed on the interdependence of atoms and Stoichiometry. Students are provided activities to help them better understand the concepts. Chemistry is recommended for admission to technical and nursing schools and to four-year colleges.

Prerequisite: Algebra II (concurrent) or Teacher Permission

Grades 11 or 12

ANATOMY AND PHYSIOLOGY – 1 Credit

Anatomy and Physiology is offered to students who are interested in furthering their understanding of how an organism's tissues, organs and systems function. Units to be covered include the brain and nervous system, respiration, the circulatory system, the actions of hormones, and mechanisms of disease. Topics are explored through discussion, numerous dissections and other laboratory experiments and research.

Prerequisite: Biology and Chemistry

Grades 11 or 12

PHYSICS - 1 Credit

Physics uses concepts and equations to describe the physical world. This course emphasizes the topics of mechanics, wave motion, optics, electricity, and magnetism. Students will conduct guided experiments and solve word problems in these topics in order to reinforce concepts. Physics is highly recommended for prospective science and engineering majors.

Prerequisite: Algebra II, Chemistry

Grade 12

ADVANCED PLACEMENT BIOLOGY – 1 Credit – Course Taught through Virtual Virginia

This course is intended for students who have a thorough knowledge of college preparatory science and are considering science as a major in college. The course prepares students for intermediate and advanced level college courses by making demands upon them equivalent to those made by full-year introductory college courses. The topics covered within this course are determined by the guidelines established by the College Board for AP Biology. They include molecules and cells, heredity and evolution, and organisms and populations. This course aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing society of biology. Mastery of laboratory science skills and knowledge will also be obtained. Twelve AP Biology laboratories will be conducted and information from these may be included on the AP Exam. All students will be required to take the AP Biology Exam and college credit may be earned through satisfactory achievement on this test. The AP Exam costs approximately \$90 and this expense will be the responsibility of the student and/or parent.

Prerequisite: Biology and Chemistry (must have scored a minimum of 90 in Chemistry and have teacher recommendation.)

Grade 12

SOCIAL STUDIES

WORLD GEOGRAPHY - 1 Credit

The course includes a detailed look at the main physical features of the earth's surface (land, climate, minerals, and vegetation) and how these elements cause the earth and its people to differ from place to place and country to country. There is a brief look at the basic ideas of world politics, world economics, world religions and people's behavior. With this background, the students survey the culture of the people over six populated continents. A special emphasis is placed on the study of the changing face of Russia, Peoples Republic of China, the developing countries of Africa, the Middle East and the United States.

Prerequisite: None

Grades 8-10

WORLD HISTORY I - 1 Credit

The Standards of Learning for the students require exploration of people, places and patterns of life from ancient times to 1500 A.D. Students study the origins of much of our heritage using texts, maps, pictures, stories, diagrams, charts, chronological skills, inquiry/research skills and technology skills.

Prerequisite: None

Grades 9-10

WORLD HISTORY II - 1 Credit

The standards for students cover history and geography from the late Middle Ages (1500 A.D.) to the present with emphasis on Western Europe. Geographic influences on history continue to be explored, but increasing attention is given to political boundaries that developed with the evolution of nation states. Significant attention will be given to the ways in which scientific and technological revolutions created new economic conditions that in turn produced social and political changes and how the people and events of the past can be related to contemporary issues. The SOL's strike a balance between the issues, persons and documents. (Using texts, maps, pictures, stories, diagrams, charts and a variety of chronological inquiry/research and technological skills, students develop competence in chronological thinking, historical comprehension and historical analysis).

Prerequisite: World History I recommended, but NOT required

Grades 10-12

VIRGINIA/U.S. HISTORY - 1 Credit

This course examines topics dealing with social, economic and political aspects of the American society. Topics to be examined include: Early exploration of the New World, Colonial America, National Period, Manifest Destiny the Civil War, Reconstruction, the Westward Movement, World War I, the Great Depression, World War II, the Cold War, the Vietnam War, present history and its relation to past history. This course is required for a Virginia diploma.

Prerequisite: None

Grade 11

VIRGINIA/U.S. GOVERNMENT - 1 Credit

This class is a study of the functions and development of the federal, state and local governments. The students will analyze the fundamental concepts of government as found within the Constitution and the governmental process of our political system. This course is required for a Virginia diploma.

Prerequisite: Virginia and U.S. History

Grade 12

SOCIOLOGY/PSYCHOLOGY - 1 Credit

Sociology is the social science that studies human society and social behavior. The class is concerned with the practical aspects of dealing with social problems and changes in varied societies. Psychology is an introduction to the concepts, theories and applications of psychology. Topics covered include theories of learning, memory, sensation, perception, personality and current issues in psychology. Through the study of psychology, students gain a better understanding of themselves and others, as well as an acceptance of individual differences.

Prerequisite: None

Grades 10-12

ADVANCED PLACEMENT VIRGINIA/U.S. HISTORY – 1 Credit

The AP VA/US History course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials – their relevance to a given interpretative problem, reliability and importance – and weigh the evidence and interpretations presented in historical scholarship. The AP exam costs approximately \$90 and this expense will be the responsibility of the student and/or parent.

Prerequisite: Teacher Permission and Placement Essay REQUIRED

Grade 11

ECONOMICS AND PERSONAL FINANCE - 1 Credit (Required for 2011 9th graders and beyond.)

The objectives shall include but not be limited to, personal living and finances; personal and business money management skills; opening an account in a financial institution and judging the quality of a financial institution's services; balancing a checkbook; completing a loan application; the implications of an inheritance; the basics of personal insurance policies; consumer rights and responsibilities; dealing with salesmen and merchants; debt management; managing retail and credit card debt; state and federal tax computation; local tax assessments; computation of interest rates by various mechanisms; understanding simple contracts and learning how to contest an incorrect bill. This course may be taught through Virtual Virginia or a hybrid course using both Virtual Virginia and traditional in classroom teacher instruction.

Prerequisite: None

Grades 10-12

HEALTH/PHYSICAL EDUCATION/DRIVER EDUCATION

HEALTH AND PHYSICAL EDUCATION 8 - 0 Credits

Students in Physical Education 8 concentrate on a variety of physical activities. The development of major muscle groups, body coordination and fitness training are emphasized as students are exposed to recreational sports, football, basketball and soccer. Forty percent of P.E. 8 is devoted to classroom instruction on personal growth and health, exposure to the negative effects of alcohol, tobacco and drugs. Physical Education classes are used to meet state "family life" requirements.

Prerequisite: None

Grade 8

HEALTH AND PHYSICAL EDUCATION 9 - 1 Credit

Students in Physical Education 9 concentrate on muscle toning, cardiovascular activities and weight training. Team sports and recreational activities are used to motivate fitness awareness. Students will spend forty percent of their P.E. time studying consumer issues, environmental health, disease prevention, family survival and first aid. State physical fitness tests and "family life" education are administered to students during this class.

Prerequisite: Health and Physical Education 8

Grade 9

HEALTH AND PHYSICAL EDUCATION 10 & DRIVER'S EDUCATION - 1 Credit

Students in Physical Education 10 concentrate on in-depth study and practice of individual team sports. Classroom drivers' education, mental health and family life instruction account for approximately seventy days of instruction. Students will be assessed by Virginia Fitness Standards two times during the year.

Prerequisite: Health and Physical Education 9

Grade 10

ADVANCED PE: STRENGTH TRAINING, CONDITIONING & PERSONAL FITNESS – 1 Credit

The focus of this elective course will be physical conditioning with an emphasis on strength training and the skills and knowledge necessary to develop and individualized personal fitness program. A variety of activities will be incorporated to develop and enhance both the health and skill related components of fitness.

Prerequisite: Health and Physical Education 10 or Teacher Permission

Grade 11-12

DANCE I - 1 Credit

The standards for Dance I provide students with a survey of the dance arts. Emphasis is placed on physical and creative skill development, and opportunities to experience and appreciate dance performance are provided. Historical and cultural studies expand students' understanding of dance as a vital contribution to society while helping them develop cognitive foundations from which to evaluate dance. Students become familiar with the various dance-related professions and the ways in which they function together to create dance productions.

Prerequisite: NONE

Grades 11-12

FOREIGN LANGUAGE

A student considering a foreign language should have demonstrated above average achievement in English Language Arts. To gain the greatest benefit from the foreign language offerings, a student is encouraged to begin his study in the ninth grade. However, students who intend on pursuing the Jackson River Governor's School program should consider beginning Spanish in 8th grade. College bound students are advised to investigate the specific requirements of the college in which they have an interest. Some colleges require that you have four years of a foreign language.

SPANISH I - 1 Credit

Communicating in the target language is emphasized at the beginning level. Vocabulary and verb conjugations in the present tense are highlighted. Activities in reading, writing and listening reinforce the oral skills. Cultural and geographical aspects of the francophone and hispanophone are explored.

Prerequisite: Teacher recommendation

Grades 8-12

SPANISH II - 1 Credit

Oral proficiency is emphasized at the intermediate level. New vocabulary, grammar skills and verb conjugations are further refined. Cultural and geographical aspects of francophone/hispanophone nations are expanded.

Prerequisite: Spanish I

Grades 9-12

SPANISH III - 1 Credit

Fluency in the foreign language is developed and refined at this level. An increase in vocabulary, grammar skills, verb conjugation (the imperfect tense) and idiomatic expressions allow the student to converse in the target language.

Prerequisite: Spanish II and Teacher Recommendation

Grades 10-12

SPANISH IV - 1 Credit

Fluency in the foreign language is mastered at the advanced levels. Advanced vocabulary, grammar skills, verb conjugations, and idiomatic expressions allow the student to express himself in written composition and conversation. This course is taught in the target language only.

Prerequisite: Spanish III, Teacher Recommendation and 80 or above grade.

Grades 11-12

FINE ARTS

ART I - 1 Credit

This course introduces students to the foundational elements and principles of design to be used as a basis for the development of a common language both visual and verbal. It provides an overview of many aspects of art through a variety of experiences such as drawing, painting, printmaking, and sculpting. The course stimulates creative thinking and problem solving, imparts technical knowledge, and develops expressive skills.

Prerequisite: None

Grades 8-12

ART II - 1 Credit

This course provides students with the opportunity to build on the skills developed in Art I in the areas such as drawing, painting, printmaking, and sculpting. An in-depth exploration of a variety of media allows students to develop a personal style and to compile a portfolio.

Prerequisite: Art I Grades 9-12

ART III - 1 Credit

Students continue in the development of artistic and aesthetic skills learned in the first two years of art at a more advanced level with increased emphasis on personal expression and on the use of a wider range of media in the areas such as drawing, painting, printmaking and sculpture. Students continue to develop their portfolios.

Prerequisite: Art II or Teacher Recommendation Grades 10-12

ART IV - 1 Credit

This advanced course is designed for students who have a serious interest in art and have demonstrated a high level of proficiency. Students will be guided to work more independently with special emphasis on individual growth. This course provides the opportunity for the mature student to develop a portfolio and to apply art knowledge and techniques for personal expression.

Prerequisite: Art III and Teacher Recommendation Grades 11-12

CERAMICS - 1 Credit

This course is designed for students who want to concentrate on clay construction and more about clay. Specific ceramic techniques are used to make pots, sculptures and more for example. Emphasis is on form, design and craftsmanship.

Prerequisite: None Grades 9-12

YEARBOOK (Local Art Elective) - 1 Credit

In this course you will play the leading role in the creation of the Bath County High School Yearbook. As part of creating the book, you will learn the principles of art and design with a focus on graphic design. You will learn what makes page a spread in a magazine or a yearbook visually appealing and how to use the placement of text and images to guide a viewer's eye. In addition, you will learn the basics of photography.

Prerequisite: None Grades 9-12

BAND - 1 Credit

The band program is open to any student in the high school who has had previous band experience or has the director's permission. The concert and marching band is one ensemble. The Band rehearses during the school day (band class). Students enrolled in the band course are required to participate in band functions to include football games, parades, competitions, winter and spring concerts and District Band Festival in March. During Football season, the band will also rehearse on Fridays after school to prepare for the games. Students will be required to attend marching band camp during late July/early August. Any student that would like to be a part of band must be enrolled in band class.

Prerequisite: Previous band experience or Director Permission Grades 9-1

HIGH SCHOOL INSTRUMENTAL MUSIC, ADVANCED LEVEL – 1 Credit

The goal of the instructional objectives for High School Instrumental Music, Advanced Level is to enable students to acquire more advanced technical and expressive skills and demonstrate a mature level of musicianship. Students demonstrate a variety of articulations, bowings, positions, alternate fingerings, and vibrato while playing the required scales, arpeggios, and rudiments in more complex rhythmic patterns. Percussion students become more proficient in the use of timpani, mallet instruments, and auxiliary instruments. Through playing, improvising, and writing, students create expressive rhythmic and melodic variations. Students research career options in music. They perform music at Solo Literature Grade Levels 4 and 5 of the Virginia Band and Orchestra Directors Association (VBODA). Students discuss and evaluate characteristics of personal performances and compositions, as well as the works of others. They discuss relationships between musical concepts and the concepts of other disciplines, and they are involved in exploring various cultures, styles, composers, and historical periods. Students are provided with opportunities to participate in local, district, regional, and state events.

Prerequisite: Presently enrolled in Band Grades 10-12

DABNEY S. LANCASTER COMMUNITY COLLEGE

DUAL ENROLLMENT COURSES

The following courses are being offered through the BCHS Distance Learning Lab. These students will be expected to follow Dabney S. Lancaster Community College's instructional schedule, even when it conflicts with Bath County High School's schedule, i.e. Thanksgiving, Christmas, Spring Breaks.

PLS135/PLS136 AMERICAN NATIONAL POLITICS AND STATE & LOCAL POLITICS

Teaches political institutions and processes of the national government of the United States. First semester focuses on Congress, the Presidency and the courts. Second semester focuses on structure, power and functions of state and local government. **3 credit hours per semester**

PSY200 PRINCIPLES OF PSYCHOLOGY

Examines human and animal behavior, relating experimental studies to practical problems. **3 Credit Hours offered in the Fall**

CST110 INTRODUCTION TO SPEECH COMMUNICATIONS

Examines the elements affecting speech communication at the individual, small group and public communication levels with emphasis on practice of communication at each level. **3 Credit Hours offered in the Spring**

PREREQUISITES FOR ABOVE: Must pass DSLCC placement test, write a placement essay, and have recommendation from the DSLCC committee. STUDENTS MUST TAKE BOTH COURSES EACH SEMESTER. Please see note below about payment of courses.

The following Welding & Advanced Manufacturing/Wind Energy courses are offered through Dual Enrollment. All students must attend these classes on the Dabney S. Lancaster campus:

WEL117 – Oxy-Fuel Welding & Cutting

WEL123 – SMAW (Basic)

WEL124 – Advanced SMAW Welding

WEL130 – Inert Gas Welding I

WEL 135 – Inert Gas Welding II

ELE 180 – AC and DC Circuit Fundamentals

MEC 161 – Basic Fluid Mechanics Hydraulics/Pneumatics

All students taking Dual Enrollment courses must pass the Dabney Placement exam (given in March at BCHS or at DSLCC upon arrangements with DSLCC Student Services). The current arrangement is that the parent or guardian pays for half of the tuition for the course in advance. The funds will be placed in an escrow account. Upon completion of the course, if the student receives a "C" or better the school board will reimburse these students for the tuition. Due to budgeting constraints this policy may change in the budget process. Please also be aware that there is currently a limit of 10 Dual Enrollment seats and 2 for Welding/Adv. Manufacturing. Enrollment numbers will be based on tuition and budgeted allotment. Tuition will be due to in July and December and is approximately \$400.00 total per 3 credit course. Parents/ Guardians are responsible for one half or approximately \$200.00

JACKSON RIVER GOVERNOR'S SCHOOL FOR SCIENCE, MATHEMATICS AND TECHNOLOGY

Participants in the Jackson River Governor's School must be nominated by their high school. A selection committee for each high school reviews the applicants and selects the finalists and alternates from their schools. Application packets are available in the guidance office. Applications are due sometime in early March. Participants will be notified by April 15th. Applicants should be currently enrolled in the 10th grade and have completed Algebra I and II, Geometry and Biology with a grade of A or B. While not required, preference will be given to students who have also taken Trigonometry and Chemistry. Students must show evidence of aptitude, potential, and strong interest in science and mathematics. **Parents/ Guardians will be responsible for paying tuition if student earns below a C in any class. Selection criteria considered by the screening committee include:**

Mathematics course grades: Algebra I, Geometry, Algebra II (B or above).

Science course grades: Earth Science, Biology, Chemistry (B or above).

Stanford 9 scores: 90th percentile or above.

PSAT/SAT scores: 90th percentile or above.

Attendance: Consistent

Teacher and Counselor Recommendations

CAREER/TECHNICAL COURSES

EIGHTH GRADE CAREER INVESTIGATION/EXPLORATORY 9068– 0 Credit

This course allows students to explore career options, begin investigating career opportunities and develop study skills. Students assess their roles in society, identify their roles as workers, analyze their personal assets, complete a basic exploration of career clusters, select career pathways or occupations for further study, and create an Academic and Career Plan based on their academic and career interests. This course also helps students identify and demonstrate the workplace skills that employers desire in their future employees.

Prerequisite: Required

Grade 8

ARCHITECTURE & CONSTRUCTION CAREER CLUSTER

CARPENTRY I 8601 - 1 Credit (140 hours)

Carpentry I introduces students to skills essential to success in the building profession. Students use hand and power tools to cut stock; learn to read blueprints; build and install foundations, trusses, doors, windows, stairs, and finishes; and frame walls, floors, ceilings, roofs, decks and porches. All students will obtain a required OSHA 10 safety credential in the class.

Prerequisite: Completed Math 8 or Pre-Algebra and Enrolled in Algebra

Grades 9-12

CARPENTRY II 8602 - 2 Credits (280 hours)

Carpentry II completes the student's secondary training for the carpentry profession. Students study blueprints; build and install foundations, trusses, doors, windows, stairs and finishes; and frame walls, floors, decks, and porches. In addition, students are introduced to basic rigging; learn to estimate and select building materials, and install cabinets. This course meets for two class periods.

Prerequisite: Carpentry I

Grades 10-12

CARPENTRY III 8603 - 2 Credits (280 hours)

This course prepares students for success in the carpentry profession. Students use hand and power tools to cut stock; build and install foundations, trusses, doors, windows, stairs, and finishes; study blueprints; and frame walls, floors, ceilings, roofs, decks, and porches. In addition to basic rigging, they also learn to estimate and select materials to build and install cabinets.

Prerequisite: Carpentry II

Grades 10-12

CABINETMAKING I 8604 - 1 Credit (140 hours)

Students learn workshop and tool safety and employability skills as they practice reading blueprints; estimating and selecting materials; cutting and shaping stock; assembling, fastening, and installing components; and finishing surfaces. The technical, problem-solving, leadership, and creative skills learned in Cabinetmaking can be applied in industries well beyond construction trades and professions and can prepare the student for lifelong learning and success.

Prerequisite: Carpentry I and Carpentry II

Grades 11-12

CABINETMAKING II 8605– 2 Credits (280 hours)

Students continue to learn workshop and tool safety and enhance their employability skills as they interpret blueprints; estimate and select materials; cut and shape stock; assemble, fasten, and install components; install interior finishes; apply wood veneers and plastic laminates; finish surfaces; and transport and install cabinets. The technical problem solving, leadership and creative skills learned in Cabinetmaking can be applied in industries well beyond construction trades and professions and can prepare the student for lifelong learning and success.

Prerequisites: Cabinetmaking I

Grade 12

ELECTRICITY I 8533 - 1 Credit (140 hours)

Students will develop skills in the installation, operation, maintenance, and repair of residential, commercial, and industrial electrical systems. They also study electrical theory, navigate the National Electrical Code Book, select and install conductors, and work with panel boards, switchboards, and generators.

Prerequisite: None

Grades 9-12

ELECTRICITY II 8534 - 2 Credits (280 hours)

Students continue to develop skills in the installation, operation, maintenance, and repair of residential, commercial, and industrial electrical systems. They also study electrical theory and mathematical problems related to electricity, navigate the National Electrical Code Book, select and install conductors, examine lighting, communications and power systems, and work with conduit and raceways, panel boards, switchboards, grounding systems and generators. The instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

Prerequisite: Electricity I

Grades 10-12

ELECTRICITY III 8535 - 2 Credits (280 hours)

Students continue to develop skills in the installation, operation, maintenance, and repair of residential, commercial, and industrial electrical systems. They also study electrical theory and mathematical problems related to electricity, navigate the National Electrical Code Book, select and install conductors, examine lighting, communications, and power systems, and work with conduit and raceways, panel boards, switchboards, grounding systems, and generators. The cooperative education method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

Prerequisite: Electricity II

Grades 10-12

BUSINESS MANAGEMENT & ADMINISTRATION CAREER CLUSTER

ACCOUNTING 6320 - 1 Credit

Accounting students study the basic principles, concepts, and practices of the accounting cycle for a service business and a merchandising business. Topics covered include analyzing transactions, journalizing and posting entries, preparing payroll records and financial statements, and managing cash control systems. Business ethics and professional conduct are emphasized. Students learn fundamental accounting procedures, using both manual and electronic systems. (FBLA)

Prerequisite: None

Grades 9-12

ACCOUNTING ADVANCED 6321 - 1 Credit

Advanced Accounting students gain knowledge of advanced accounting principles, procedures, and techniques used to solve business problems and make financial decisions. Students work in a technology-integrated environment, using accounting and spreadsheet software to analyze, synthesize, evaluate, and interpret business financial data related to inventory, fixed assets, notes/accounts payable and receivable, implementation of a partnership and a corporation, and other specialized accounting systems. Using authentic workplace scenarios that reflect current industry trends and standards, students analyze financial data and acquire knowledge of business ethics. (FBLA)

Prerequisite: Accounting

Grades 10-12

BUSINESS MANAGEMENT - 6136 (18 wks) ½ Credit or 6135 (36 wks) 1 Credit

Students study basic management concepts and leadership styles as they explore business ownership, planning, operations, marketing, finance, economics, communications, the global marketplace, and human relations. Quality concepts, project management, problem solving, and ethical decision making are an integral part of the course. Student leadership skills may be enhanced by participation in school-based or virtual enterprises, job shadowing, internships, cooperative education, and/or the Future Business Leaders of America (FBLA).

Prerequisite: None

Grades 10-12

COMPUTER INFORMATION SYSTEMS - 6614 (18 wks) ½ Credit or 6612 (36 wks) 1 Credit

Students apply problem-solving skills to real-life situations through word processing, spreadsheets, databases, multimedia presentations, and integrated software activities. Students work individually and in groups to explore computer concepts, operating systems, networks, telecommunications, and emerging technologies. (FBLA)

Prerequisite: Recommended demonstration of touch keyboarding skills.

Grades 9-12

COMPUTER INFORMATION SYSTEMS ADVANCED - 6615 (18 wks) ½ Credit or 6613 (36 wks) 1 Credit

Students apply problem-solving skills to real-life situations through advanced integrated software applications, including printed, electronic, and Web publications. Students work individually and in groups to explore advanced computer maintenance activities, Web site development, programming, networking, emerging technology, and employability skills. (FBLA)

Prerequisite: Computer Information Systems

Grades 10-12

ECONOMICS AND PERSONAL FINANCE 6120 - 1 Credit (Required for 2011 9th graders and beyond.)

The objectives shall include but not be limited to, personal living and finances; personal and business money management skills; opening an account in a financial institution and judging the quality of a financial institution's services; balancing a checkbook; completing a loan application; the implications of an inheritance; the basics of personal insurance policies; consumer rights and responsibilities; dealing with salesmen and merchants; debt management; managing retail and credit card debt; state and federal tax computation; local tax assessments; computation of interest rates by various mechanisms; understanding simple contracts and learning how to contest an incorrect bill. This course may be taught through Virtual Virginia or a hybrid course using both Virtual Virginia and traditional in classroom teacher instruction.

Prerequisite: None

Grades 10-12

KEYBOARDING APPLICATIONS 6153 (18 wks) ½ Credit or 6152 (36 wks) 1 Credit

This course is designed for secondary school students to develop and enhance touch skills for entering alphabetic, numeric, and symbol information on a keyboard. Students compose and produce personal, educational, and professional documents. (FBLA)

Prerequisite: None

Grades 8-12

MEDICAL SYSTEMS ADMINISTRATION 6731 (18 wks) ½ Credit or 6730 (36 wks) 1 Credit

Students wishing to gain employment in the health care field may take this course to learn how to use medical terminology and apply administrative procedures necessary to be productive employees in a health care environment. Students will learn how to manage office activities, enhance communication skills, identify legal and ethical issues in health care practices, manage financial functions, and enhance employability skills. (FBLA)

Prerequisite: Recommended demonstration of touch keyboarding skills.

Grades 10-12

PRINCIPLES OF BUSINESS MARKETING - 6116 (18 wks) ½ Credit or 6115 (36 wks) 1 Credit

Students discover the roles of business and marketing in the free enterprise system and the global economy. Basic financial concepts of banking, insurance, credit, inheritance, taxation, and investments are investigated to provide a strong background as students prepare to make sound decisions as consumers, wage earners, and citizens. The real-world impact of technology, effective communication, and interpersonal skills is evident throughout the course. This course also supports career development skills and explores career options. (FBLA)

Prerequisite: None

Grades 10-12

WORD PROCESSING 6626 (18 wks) ½ Credit or 6625 (36 wks) 1 Credit

Students develop intermediate to advanced level word processing skills, using a variety of software functions, including graphics, desktop publishing, and telecommunications. Students gain competence integrating other applications such as database and spreadsheet into word processing activities. Classroom experiences also provide for skill development in communication. (FBLA)

Prerequisite: Recommended demonstration of touch keyboarding skills.

Grades 9-12

COOPERATIVE EDUCATION

The Business and Information Technology Program at Bath County High School wishes to incorporate Cooperative Education into the advanced classes. All occupational courses and special program courses listed in the Business Program are eligible for the Cooperative Education method of instruction. Cooperative Education provides for an advanced student to experience hands-on education in an approved workplace with an individualized training plan and contract. Students will receive one high school credit.

Grades: 11, 12

ARTS, AUDIO/VIDEO TECHNOLOGY CAREER CLUSTER

COMPUTER INFORMATION SYSTEMS – SEE PAGE 18

COMPUTER INFORMATION SYSTEMS ADVANCED – SEE PAGE 18

DESIGN, MULTIMEDIA AND WEB TECHNOLOGIES 6632 (18 wks) ½ Credit or 6630 (36 wks) 1 Credit

Students develop proficiency in creating desktop publications, multimedia presentations/projects, and Web sites using industry standard application software. Students incorporate principles of layout and design in completing publications and projects. Students design portfolios that may include business cards, newsletters, mini-pages, Web pages, multimedia presentations/projects, calendars, and graphics. Completion of this course may prepare students for industry certifications. (FBLA) **Prerequisite: Recommended demonstration of touch keyboarding skills.**

PRINCIPLES OF BUSINESS MARKETING – SEE PAGE 19

PROGRAMMING – SEE PAGE 23

PROGRAMMING ADVANCED – SEE PAGE 23

WORD PROCESSING – SEE PAGE 19

HOSPITALITY & TOURISM CAREER CLUSTER

CULINARY ARTS I 8275 - 2 Credits (280 hours)

This course, developed by the National Restaurant Association is for students interested in hospitality and restaurant field. Foundations of Restaurant Management and Culinary Arts is the curriculum which combines management skills with guest speakers and field trips in the industry for hands on approach to this field of study. Students practice managerial, production, and service skills used in government, commercial, or independently owned institutional food establishments and related food industry occupations. Students plan, select, store, purchase, prepare, and serve food and food products; study basic nutrition, sanitation, and food safety; the use and care of commercial equipment; and the operation of institutional food establishments. Industry career exploration, as well as critical thinking, practical problem solving, and entrepreneurship opportunities within the field of culinary arts are emphasized. Students will develop skills in stocks, soups, sauces, potatoes, pasta, and grains. Students may obtain their ServSafe Certification and have opportunities to cater events for the school and community. If they chose, a mentorship will be set up and/or as paid work experience with a local chef or restaurant. If working, hours can be applied to the ProStart National Certification. At the conclusion of this program, students will be able to enter the workforce above an entry-level position. Students will be involved in FCCLA activities and competitions locally and at the state level. Teachers highlight the basic skills of mathematics, science and communication when appropriate in content.

Prerequisite: None

Grades 9-12

CULINARY ARTS II 8276 - 2 Credits (280 hours)

This course, developed by the National Restaurant Association is for students continuing their interest in the hospitality and restaurant fields. Foundations of Restaurant Management and Culinary Arts, level two continues to provide a hands on approach to leadership in the field. Culinary Arts II provides students an opportunity to refine skills in serving, dining room management, and other skills learned in Culinary Arts I. Students prepare for occupations such as chef/cook, baker/pastry helper, pastry decorator, hospitality worker, dietetic aide/assistant, food demonstrator, and entrepreneur. Critical thinking, practical problem solving, and entrepreneurship opportunities within the field of culinary arts are emphasized. Students will continue work in the ProStart curriculum and work towards passing the second level of examinations. Students will refine their culinary skills in the areas of cuisines of the world, the Americas and in pastries, pies, meat, poultry, seafood, desserts, chocolate and breakfast foods. Salads, vinegars, and salsa, and garnishes will be included as well as cost control, purchasing and inventory. Students which have passed the two levels of the ProStart exam and completed the 400 hours of paid internship hours will obtain the ProStart national certification credential. Teachers highlight the basic skills of mathematics, science and communication when appropriate in content. Scholarships for post-secondary experiences are available upon receiving the credential. Students will be involved in FCCLA activities and competitions locally and at the state level.

Prerequisite: Culinary Arts I

Grades 10- 12

CUNLINARY ARTS SPECIALIZATION 8279 - 1 credits

The Culinary Arts Specialization curriculum provides students with continuing opportunities to obtain comprehensive knowledge of the food service industry as well as to expand their technical skills in a food service specialty. Students explore careers and refine their skills in implementing safety and sanitation standards, applying nutritional principles, planning menus, using business and math skills, and selecting and maintaining food service equipment. Depending on the options available in the locality, students specialize in one of the following four areas: Baking & Pastry Food Preparation Techniques, Catering/Banquet Food Preparation Techniques, Restaurant Operation Techniques and Quantity Food Preparation Techniques. The curriculum continues to place a strong emphasis on science and mathematics knowledge and skills as it emphasizes critical thinking, practical problem solving, and entrepreneurial opportunities within the field of culinary arts. Students will be involved in FCCLA activities and competitions locally and at the state level.

Prerequisite: Culinary II

Grade 12

INTRODUCTION TO CULINARY ARTS - 8249 (18 wks) ½ Credit or 8250 (36 wks) 1 Credit

The Introduction to Culinary Arts curriculum provides students with opportunities to explore career options and entrepreneurial opportunities with the food service industry. Students investigate food safety and sanitation, explore culinary preparation foundations, practice basic culinary skills, explore diverse cuisines and service styles, investigate nutrition and menu development, and examine the economics of food. The curriculum places a strong emphasis on science and mathematics knowledge. Students will be involved in FCCLA activities and competitions locally and at state level.

Prerequisite: None

Grades 9-12

INTRODUCTION TO HOSPITALITY, TOURISM, AND RECREATION - 8258 (18 wks) ½ Credit or 8259 (36 wks) 1 Credit

Students enrolled in Introduction to Hospitality, Tourism, and Recreation focus on developing professional skills and using emerging technologies to prepare for employment in this global industry, rich in diverse career opportunities. The program includes instruction in the industries of lodging, food and beverage, travel and tourism, and recreation and fitness.

Prerequisite: None

Grades 9-12

HUMAN SERVICES**FAMILY RELATIONS - 8224 (18 wks) ½ Credit or 8225 (36 wks) 1 Credit**

Students enrolled in Family Relations focus on analyzing the significance of the family; nurturing human development in the family throughout the life span; analyzing identifying factors that build and maintain healthy family relationships; developing communication patterns that enhance family relationships; dealing effectively with family stressors and conflicts; managing work and family roles and responsibilities; analyzing social forces and conditions that influence families across the life span; and cultivating the safety and well-being of the family. Critical thinking, practical problem solving, and entrepreneurship opportunities within the area of family responsibilities and services are emphasized. Instructors highlight the basic skills of mathematics, science, and communication when appropriate.

Prerequisite: None

Grades 9-12

INDEPENDENT LIVING - 8214 (18 wks) ½ Credit or 8219 (36 wks) 1 Credit

Students in Independent Living build life skills focusing on establishing positive relationships, balancing work and family life, investigating careers, making responsible consumer choices, applying nutrition and wellness knowledge, and studying child development and parenting.

Prerequisite: None

Grades 9-12

INDIVIDUAL DEVELOPMENT - 8209 (18 wks) ½ Credit or 8210 (36 wks) 1 Credit

Individual Development students focus on cultivating positive self-esteem; developing skills to build healthy relationships with family, peers, and community members; managing stress and conflict; and preparing to become college- and career-ready.

Prerequisite: None

Grades 9-12

NUTRITION AND WELLNESS - 8228 (18 wks) ½ Credit or 8229 (36 wks) 1 Credit

Students enrolled in Nutrition and Wellness focus on understanding wellness, investigating principles of nutrition, using science and technology in food management, ensuring food safety, planning menus and preparing food, and exploring careers in the field of nutrition and wellness. Critical thinking and practical problem solving are emphasized.

Prerequisite: None

Grades 9-12

INFORMATION TECHNOLOGY CAREER CLUSTER

COMPUTER INFORMATION SYSTEMS – SEE PAGE 18

COMPUTER INFORMATION SYSTEMS ADVANCED – SEE PAGE 18

COMPUTER SYSTEMS TECHNOLOGY I 8622 – 1 Credit

Students enter the world of computer technology and gain practical experience in assembling a computer system. Students will install, configure, and secure various operating systems. Students will troubleshoot computers and peripherals and use system tools and diagnostic software. They develop skills in computer networking and resource sharing. In addition, students explore the relationships between internal and external computer components. Upon successful completion of the course, students may qualify to take the CompTIA A+ certification exam.

Prerequisite: None

Grades 9-12

COMPUTER SYSTEMS TECHNOLOGY II 8623 – 2 Credit

Students will gain a basic understanding of emerging technologies including unified communications, mobile, cloud, and virtualization technologies. The course prepares students for postsecondary education and training and a successful career in information technology. Upon successful completion of the course, students may qualify to take CompTIA's A+ and Network+ certification exams.

Prerequisite: Compute Systems Technology I

Grades 10-12

CYBERSECURITY FUNDAMENTALS 6302 - 1 Credit

Cybersecurity affects every individual, organization, and nation. This course focuses on the evolving and all-pervasive technological environment with an emphasis on securing personal, organizational, and national information. Students will be introduced to the principles of cybersecurity, explore emerging technologies, examine threats and protective measures, and investigate the diverse high-skill, high-wage, and high-demand career opportunities in the field of cybersecurity.

Prerequisite: None

Grades 9-12

CYBERSECURITY SOFTWARE OPERATIONS 6304 - 1 Credit

Cybersecurity Software Operations is designed to teach many aspects of computer support and network administration. Students learn networking concepts, from usage to components, and create peer-to-peer network systems and client server networks. Students learn how to install and configure network cards and connect them to networks; to install the operating systems; to create, set up, and manage accounts; to load software; and to establish, implement, and maintain network integrity security plans. This course may cover software-based network operating systems, such as Windows Server or Linux, to prepare students with a foundation in computer network administration.

Prerequisite: Cybersecurity Fundamentals and Recommended demonstration of touch keyboarding skills.

Grades 10-12

DESIGN, MULTIMEDIA, AND WEB TECHNOLOGIES – SEE PAGE 19

INFORMATION TECHNOLOGY FUNDAMENTALS 6670 – 1 Credit

Information Technology (IT) Fundamentals introduces the essential technical and professional skills required for students to pursue programs leading to professional careers and IT certifications. Students investigate career opportunities and technologies in four major IT areas: Information Services and Support, Network Systems, Programming and Software Development, and Interactive Media. Students will evaluate the impact of IT on other career clusters. The focus of the IT Fundamentals course is the introduction of skills related to information technology basics, Internet fundamentals, network systems, computer maintenance/upgrading/troubleshooting, computer applications, programming, graphics, Web page design and interactive media. Students explore ethical issues related to computers and Internet technology and develop teamwork and communications skills that will enhance their employability.

Prerequisite: Recommended demonstration of touch keyboarding skills.

Grades 8-10

KEYBOARD APPLICATIONS – SEE PAGE 19

MEDICAL SYSTEMES ADMINISTRATION – SEE PAGE 19

PROGRAMMING 6640 - 1 Credit

Students explore computer concepts, apply logic procedures and implement programming procedures with one or more languages, such as Visual Basic.Net, Java, C+, C++. Graphical User Interfaces, such as Alice, Game Maker, and Flash, may be used as students' design and develop interactive multimedia applications. In addition, HTML or JavaScript may be employed to create Web pages. The cooperative education method is available for this course. Students combining classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

Prerequisite: Recommended demonstration of touch keyboarding skills.

Grades 9-12

PROGRAMMING ADVANCED - 1 Credit

Students will build on their foundation of programming skills. Advanced Programming students use object-oriented programming to develop database applications, interactive multimedia applications including game applications, mobile applications, and Web applications. Students continue to develop their employability skills as they research pathways for continuing education and careers in the information technology industry and engage in various career-building activities.

Prerequisite: Programming

Grades 10-12

WORD PROCESSING – SEE PAGE 19

SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS CAREER CLUSTER

ACCOUNTING – SEE PAGE 18

ACCOUNTING ADVANCED – SEE PAGE 18

COMPUTER INFORMATION SYSTEMS – SEE PAGE 18

COMPUTER INFORMATION SYSTEMS ADVANCED – SEE PAGE 18

CYBERSECURITY FUNDAMENTALS – SEE PAGE 22

CYBERSECURITY SOFTWARE OPERATIONS – SEE PAGE 22

DESIGN, MULTIMEDIA, AND WEB TECHNOLOGIES – SEE PAGE 19

ENERGY AND POWER 8495 - (18 wks) ½ Credit or 8448 (36 wks) 1 Credit

In this course, students analyze energy sources and explore the generation, transmission, and distribution of electricity. The course provides math, science, and technical writing skills through hands-on application.

Prerequisite: None

Grades 10-12

ENGINEERING DRAWING AND DESIGN 8493 - (18 wks) ½ Credit or 8436 (36 wks) 1 Credit

Students use a graphic language for product design, technical illustration, evaluation of designs, and engineering drawings. They increase their understanding of drawing techniques learned in the prerequisite course. Students use computers, calculators, and descriptive geometry and adhere to established standards to solve design problems. They work in teams to design solutions for an identified need.

Prerequisite: Technical Drawing and Design

Grades 10-12

PROGRAMMING – SEE PAGE 23

PROGRAMMING ADVANCED – SEE PAGE 23

RENEWABLE ENERGY 8408 - 1 Credit

This course will provide fundamentals and in-depth application of various renewable energies. Students will explore select renewable energy technologies, will gain hands-on experience in their design and function, and will practice installation skills.

Prerequisite: None

Grades 10-12

TECHNICAL DRAWING AND DESIGN 8434 - (18 wks) ½ Credit or 8435 (36 wks) 1 Credit

In this foundation course, students learn the basic language of technical design, while they design, sketch and make technical drawings, illustrations, models, or prototypes of real design problems. Students develop spatial ability as they apply mathematical concepts to visual representations. The course is especially recommended for future engineering and architecture students.

Prerequisite: Algebra I

Grades 9-12

TRANSPORTATION, DISTRIUBTION & LOGISTICS CAREER CLUSTER

AUTOMOTIVE TECHNOLOGY I 8506 - 1 Credit (140 hours)

Prerequisite: None

Due to recent technological advancements in automobiles, it is crucial that technicians are prepared with state-of-the-art technology and training. This course represents a large sampling of the competencies from National Automotive Technician's Education Foundation's CNATEF's Maintenance and Light Repair accredited program. Students are provided instruction in all systems as they prepare for the ASE (Automotive Service Excellence)

Prerequisite: None

Grade 9-12

AUTOMOTIVE TECHNOLOGY II 8507 - 2 Credits (280 hours)

This course represents the advanced competencies from National Automotive Technician's Education Foundation's (CNATEF's) Maintenance and Light Repair accredited program without redundancy from the prerequisite course. Students are provided instruction in all systems as they prepare for the ASE (Automotive Service Excellence) Successful completion of this course will result in program completion and prepare students to pass the equivalent NATEF student exam and ultimately attain certification.

Prerequisite: Automotive Technology I

Grade 10-12

AUTOMOTIVE TECHNOLOGY III 8508 - 2 Credit (280 hours)

This course is available for students who have completed the first two courses of Automotive Technology and attained program-completer status. The tasks for this capstone course represent the middle-tier standards of the National Automotive Technician's Education Foundation's (NATEF's) Automobile Service Technology accredited program. Students are provided instruction in all systems as they prepare for the ASE (Automotive Service Excellence).

Prerequisite: Automotive Technology II

Grade 11-12

ENTREPRENEURSHIP EDUCATION 9093 - 1 Credit

This course introduces students to the exciting world of creating, owning, and launching their own business. Students will learn concepts and techniques for planning an innovative business and living the entrepreneurial lifestyle. Emphasize will be placed on owning and operating an automotive repair facility, reinforcing already learned concepts from Automotive Technology courses. Students will be task with the day to day operations of an instructor facilitated job list, while completing a curriculum that prepares students for success in business ownership.

Prerequisites: Auto Tech 1, Auto Tech II, AND specific Business & Administration courses. (See SEQUENCES FOR CTE CERTIFICATES)

Grades 11-12

POLICES AND PROCEDURES

Program Planning/Scheduling

In selecting subjects, the students should recognize the fact that employment and post-secondary opportunities are highly competitive. The quality of the subjects studied and the quality of academic performance are crucial factors in decisions made by both employers and college administrations. Therefore, it is to the student's advantage to select subjects which present a challenge and which serve as a recommendation for them.

During the early winter each student meets with their Guidance counselor for an individual conference to address both their academic and career plan but to also select their courses for the upcoming year. Counselors explore carefully with each student their courses and SOL tests (verified credits) which are needed to complete for graduation. They discuss their career path, plans for postsecondary education and future requirements for employment and courses which are required for NCAA athletic eligibility. Counselors also discuss students' academic progress, their interests and aptitudes. Certain placement in classes will be weighed not only on student interest but also teacher recommendation and diagnostic placement test results.

Students should give very serious consideration during the registration process and to the classes they will be selecting. We encourage students to make choices of elective courses thoughtfully as these career paths can help assist a student in their future career endeavors. If a student needs to make a change in his/her schedule, it must be done within the first five days of school. After that time courses will not be dropped or changed without a parent-teacher conference. Seniors who are not meeting graduation requirements are still required to be in school for a minimum of five periods a day.

Grading Scale/Grade Point Average/Class Rank

The following system of grading is in effect at Bath County High School:

A	100-94	.....	Superior
B	93-86	.....	Above Average
C	85-78	.....	Average
D	77-70	.....	Passing
F	69 & Below	.....	Failing
I			Incomplete

When determining the grade point average (GPA) of a student, an additional seven (7) points on each course grade is added to the following courses: **Dual-Enrollment and Governor's School courses which are transferable to a four-year college; AP courses, if the student takes the AP exam and English 9AS, 10AS, 11AS and 12AS. GPA is only calculated once the course credit is awarded, except in the student's senior year. GPA is recalculated at the semester point for seniors.**

Class rank is determined based on the student's weighted GPA average.

Grade Level Classification

Students must successfully complete 15 units of credit in order to be classified as seniors; 10 units for juniors, 5 units for sophomores. Ninth graders must have successfully completed 4 courses during the eighth grade, including English 8 and a math.

High School Credit Earned in the 8th Grade

When an eighth grade student successfully completes subjects identified as high school subjects, credit shall be counted for meeting the total number of units required for graduation. For example, Algebra, a foreign language, World Geography and some career/technical courses taken in the eighth grade will count toward fulfilling the credits needed for graduation. The grades earned in these courses will become part of the grade point average. Parents may notify the high school if they choose for those courses taken in the eighth grade not to count. Notification must occur in writing within fifteen days following the completion of the course.

Special Education

Programs are provided for students in need of special services. More information regarding these programs may be obtained from a school counselor or a specialist currently working with the student. Scheduling is done on an individual basis according to the needs of each student. Through the cooperation of the special education teacher and the regular classroom teacher, these students will be helped to achieve the goals of their regular class. The instructional program in all special education classes is based on each student's individualized education program (IEP). Various diploma options for special education students are available and will be determined by the IEP team, which includes the student and his/her parents.

Alternative Education

An alternative education program (ISAEP) is available upon request and is considered on an individual basis by an administrative team.

Summer School

A listing of course offerings and additional information will be made available in late May in the principal's office and the school counseling office. Summer school is offered on an as needed basis and based on any budgetary constraints.

Community Service

All students must complete 10 hours of community service for each year they are in high school. For most students this is 50 hours. Students who transfer into BCHS from another high school will be adjusted.

Full Day Schedule

All students shall be expected to carry the normal load of classroom work required to meet the minimum standards necessary for graduation and the attendance requirements of the state. A full day schedule is defined as a minimum of five credit bearing courses per semester (seven courses in total). Criteria for exemption from full-day attendance at the high school level are as follows:

-a. A senior and qualify for a hardship, health problem(s), or an Individualized Education Plan (IEP).
.....b. Currently enrolled or have completed the necessary courses to meet graduation requirements.
.....c. Employed and/or enrolled in a program approved by the principal.

All exceptions to a full-day schedule must be approved on an individual basis by the high school principal.

Early College Scholars

Early College Scholars is a program that encourages juniors and seniors who are prepared and interested in accelerating their coursework toward a college degree while still in high school. A student who wishes to be part of this program must sign an agreement along with his/her parent, counselor, and principal, and agree to:

- Have a "B" average or better;
- Be pursuing an Advanced Studies Diploma;
- Be completing or have completed college level course work (i.e. Advanced Placement or dual enrollment) that will earn at least 15 transferable college credits.

Virtual Virginia

Virtual Virginia is a state online course provider that offers required or supplemental courses as available. These courses may be available if they are not otherwise provided in the base school or are not accessible due to scheduling conflicts. See your counselor for details regarding these opportunities. Principals must approve any student who takes a class through Virtual Virginia. Please note that if a student drops the Virtual Virginia course after the drop deadline, the student is responsible to pay the \$75 drop fee associated with this course. The available courses can be located on the Virtual Virginia website at www.virtualvirginia.org.

Diploma Seals

Governor's Seal for Advanced Studies Diploma

To receive the governor's Seal on an advanced studies diploma, students must complete the following:

- All requirements for an Advanced Studies Diploma with an average grade of "B" (3.0 unweighted GPA) or better and
- College-level coursework that will earn the student at least 9 transferrable college credits in Advanced Placement (AP) or dual enrollment courses.

Virginia Board of Education Seal

Students who complete the requirements for a Standard Diploma or Advanced Studies Diploma with an average grade of "A" shall receive a Board of Education Seal on the diploma.

Career and Technical Education – Virginia Board of Education's Seal

The Board of Education's Seal for Career and Technical Education is awarded to students who meet the following:

- Requirements for a Standard or Advanced Studies Diploma
- A prescribed sequence of courses in a career and technical education concentration or specialization; and
- Maintain a "B" or better average in those courses or pass an examination or an occupational competency assessment in a career and technical education concentration or specialization that confers certification or occupational competency credential from a recognized industry, trade, or professional association or acquire a professional license in that career and technical education field from the Commonwealth of Virginia.

The Board of Education shall approve all professional licenses and examination used to satisfy these requirements.

Advanced Mathematics and Technology – Virginia Board of Education's Seal

The Board of Education's Seal of Advanced Mathematics and Technology is awarded top students who meet the following:

- Requirements for either a Standard or Advanced Studies Diploma;
- Mathematics requirements for the Advanced Studies Diploma (four Units of credit including AlgebraII; two verified units of credit) with a "B" average or better; and
- Pass an examination in a career and technical education field that confers certification from a recognized industry or trade or professional association, acquire professional license in a career and technical education field from the Commonwealth of Virginia, or pass an examination approved by the Board that confers college-level credits in a technology or computer science area.

The Board of Education shall approve all professional licenses and examinations used to satisfy these requirements.

Excellence in Civics Education – Virginia Board of Education's Seal

The Board of Education's Seal for Excellence in Civics Education is awarded to students who meet the following:

- Requirements for either a Standard or Advanced Studies Diploma;
- Virginia and US History and Virginia and US Governments courses with a grade of "B" or better;
- Good attendance and no disciplinary infractions as determined by local school board policies; and
- 50 hours of voluntary participation in community service or extracurricular activities.*

*Activities that would satisfy these requirements include (a) volunteering for a charitable or religious organization that provides services to the poor, sick, or less fortunate; (b) participating in Boy Scouts, Girl Scouts, or similar youth organizations; (c) participating in JROTC; (d) participating in political campaigns or government internships, or Boys State, Girls State, or Model General Assembly; or (e) participating in school-sponsored extracurricular activities that have a civics focus. Any student who enlists in the US military prior to graduation will be deemed to have met this community service requirement.

GRADUATION REQUIREMENTS (Graduating Classes 2018-2021)

Advanced Studies Diploma Requirements

Subject	Standard Credit	Verified Credit
English	4	2
Mathematics	4	3
Laboratory Science	4	2
Social Studies	4	2
Health/Dr. Ed/PE	2	
Fine Arts or CTE	1	
Foreign Language	3 or 4	
Economics and Personal Finance	1	
Electives	3 or 2	
Student Selected Test		1
Total	26	9

English: SOL tests given in English 11 Writing and English 11 Reading/Literature and Research.

Mathematics: Must include courses at or above the level of Algebra I and include at least 3 different courses from among Algebra I, Geometry, Algebra Functions & Data Analysis, Algebra II, or others above Algebra II. SOL tests are given in Algebra I, Geometry, and Algebra II.

Science: Must include at least 3 courses from the 4 required courses: Earth Science, Biology, Chemistry, and Physics. Other courses selected from AP Biology, AP Environmental Science and Physics. SOL tests are given in Earth Science, Biology, and Chemistry.

Social Studies: Must include VA and U.S. History, VA and U.S. Government and two more from among World Geography, World History I, or World History II. SOL tests are given in all social studies courses except VA and U.S. Government.

Foreign Languages: Three years of one language or two years of two languages.

Standard Diploma Requirements

Subject	Standard Credit	Verified Credit
English	4	2
Mathematics	3	1
Laboratory Science	3	1
Social Studies	3	1
Fine Arts, CTE or Foreign Language	2	
Economics and Personal Finance	1	
Health/Dr. Ed/PE	2	
Electives	4	
Student Selected Test		1
Total	22	6

English: SOL tests given in English 11 Writing and English 11 Reading/Literature and Research.

Mathematics: Must include courses at or above the level of Algebra I and include at least 3 different courses from among Algebra I; Geometry, Algebra Functions and Data Analysis; Algebra II; or others above Algebra and Geometry. SOL tests are given in Algebra I, Geometry, and Algebra II.

Science: Must include at least 3 courses from among Earth Science, Biology, Chemistry, AP Environmental Science and Physics. SOL tests are given in Earth Science, Biology, and Chemistry.

Social Studies: Must include VA and U.S. History, VA and U.S. Government and one more from among World Geography, World History I, or World History II. SOL tests are given in all social studies courses except VA and U.S. Government.

Electives: Two electives must be sequential.

Fine Arts, CTE or Foreign Language: One of these credits must be in Fine Arts or CTE.

New Revised Standards of Accreditation - Impact on Students

(Beginning with Class of 2022)

Requirements for Graduation

The revised regulations reduce the number of SOL tests students must pass to earn a high school diploma — while maintaining high expectations for learning in English, math, science and history/social science — and implement the “Profile of a Virginia Graduate,” a set of skills and attributes identified by employers and higher education as critical for success in the workplace and in college.

These expectations are often referred to as the “5 C’s”: creativity, critical thinking, communication, collaboration and citizenship.

The new graduation requirements place increased emphasis on the practical application of learned skills and content knowledge by expanding the use of performance-based assessments for the awarding of verified credits.

In addition, the career-planning component of the new graduation requirements provides the opportunity for students to learn about employment options aligned with their interests in their own communities and elsewhere.

While there is no specific activity that a student must experience (such as an internship, job-shadowing assignment or participation in a career fair) to graduate, school divisions are required to collaborate with local employers to create opportunities for students to learn about the workplace expectations, regardless of their plans after high school.

School divisions also must ensure that students understand and demonstrate civic responsibility and community engagement.

Key points for students and parents to remember about how Virginia’s diploma standards are changing include the following:

- The new graduation requirements are effective with students entering the ninth grade in the fall of 2018 (class of 2022).
- Under the new requirements, the number of required standard credits for a Standard Diploma remains the same (22) but the number of required verified credits is reduced from six to five (one each in English reading, English writing, mathematics, science and history/social science).
- Under the new requirements, the number standard credits required for an Advanced Studies Diploma remains the same (26) but the number of required verified credits is reduced from nine to five (one each in English reading, English writing, mathematics, science and history/social science).
- School divisions, on a local-option basis, may offer an authentic performance-based assessment as an alternative to the English writing SOL test for the awarding of verified credit.
- In history/social science, students may earn the required verified credit by passing an authentic performance-based assessment rather than an SOL test.

Advanced Studies Diploma (Class of 2022)

Subject	Standard Units of Credit Required	Verified Credits Required
English	4	2
Mathematics	4	1
Science	4	1
History/Social Science	4	1
World Language	3	
Health & Physical Education	2	
Fine Arts or Career & Technical Education	1	
Economics & Personal Finance	1	
Electives	3	
TOTAL	26	5

Standard Diploma (Class of 2022)

Subject	Standard Units of Credit Required	Verified Credits Required
English	4	2
Mathematics	3	1
Science	3	1
History/Social Science	3	1
Health & Physical Education	2	
World Language, Fine Arts or Career & Technical Education	2	
Economics & Personal Finance	1	
Electives	4	
TOTAL	22	5

Standard Diploma with Credit Accommodations (Class of 2018 -2021)

Credit accommodations provide alternatives for students with disabilities in earning the standard and verified credits required to graduate with a Standard Diploma. Credit accommodations for students with disabilities may include☺

- Alternative courses to meet the standard credit requirements
- Modifications to the requirements for locally awarded verified credits
- Additional tests approved by the Board of Education for earning verified credits
- Adjusted cut scores on tests for earning verified credits
- Allowance of work-based learning experiences through career and technical education (CTE) courses.

While credit accommodations provide alternate pathways and flexibility, students receiving accommodations must earn the 22 standard credits and six verified credits required to graduate with a Standard Diploma.

Eligibility Criteria: Credit accommodations for the Standard Diploma shall be determined by the student’s Individualized Education Program (IEP) team or 504 plan committee, including the student where appropriate, at any point after the student’s eighth grade year. The school must secure the informed written consent of the parent/guardian and the student, as appropriate, to choose credit accommodations after review of the student’s academic history and full disclosure of the student’s options.

The student must meet the following criteria to be eligible to receive credit accommodations for the Standard Diploma:

- a. Student must have a current IEP or 504 plan with standards-based content goals.
-b. Student has a disability that precludes him or her from achieving and progressing commensurate with grade level expectations, but is learning on grade level content.
-c. Student needs significant instructional supports to access grade level Standards of Learning (SOL) content to show progress.
-d. Based on multiple objective measures of performance, student might not be expected to achieve the required standard and verified units of credit with the standard time frame.

For more information, please see the student’s school counselor or case manager.

Certificate of Program Completion

In accordance with the requirements of the Standards of Quality, students who complete coursework defined by the local school board but have not earned the required verified credits for diplomas are awarded Certificates of Program Completion.

GRADUATION REQUIREMENTS

Fine Arts/Career and Technical Education Requirement

The Commonwealth of Virginia requires that each student pass at least one credit in the field of Fine Arts (Art, Band) or Career and Technical Education in order to meet the requirements for graduation.

Sequential Electives Requirement

Students who will graduate with a standard diploma are required to take at least two sequential electives that may include a concentration of courses selected from a variety of options. The options include an approved sequential combination of eighteen or thirty-six-week elective course in the same department that total two years of study.

Personal Finance Requirement

The Code of Virginia requires that all middle and high school students master objectives developed by the State Department of Education for economics and financial literacy. Bath County High School students must meet this requirement by successfully completing a course in Economics and Personal Finance described in the History section of this guide. Students who plan on attending the Jackson River Governor's School should try and take this course prior to their junior year.

Online Course Requirement

The Code of Virginia requires that all students take at least one online course in order to earn a standard or advanced studies diploma. VDOE has determined that this requirement may be met via a hybrid online/face-to-face course also does not require that the course have a course credit associated.

CTE Credential Requirement

The 2012 General Assembly passed, and the Governor signed into law, HB 1061 and SB 489, to strengthen postsecondary education and workplace readiness opportunities for all students. The legislation says, in part:

“Beginning with first-time ninth grade students in the 2013-2014 school year, requirements for the standard diploma shall include a requirement to earn a career and technical education credential that has been approved by the Board, that could include, but not be limited to, the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia workplace readiness skills assessment.”

At BCHS the certifications available to students are:

- Workplace Readiness Skills for the Commonwealth (All Pathways)
- Pro-Start Program Certification Examinations (Level 1 and 2) (Culinary Pathway)
- National Occupational Competency Institute (NOCTI) (Business Pathway)
- Microsoft Office Specialist (MOS)(Business Pathway)
- WISE (Financial Literacy)
- Microsoft Exam 98-361, Software Development Fundamentals (Technology Pathway)
- Autodesk Certified User (Technology Pathway)
- SkillsUSA (Carpentry and Electricity Pathways)
- ASE Student Certification Assessment (Automotive Pathway)

Requirement for Training in First Aid, CPR, and AED

Beginning with the Class of 2020, the Code of Virginia requires that all students receive training in emergency First Aid, CPR, and the use of AEDs.

Virginia High School League Rules for Athletics and Academic Bowl Eligibility

28-4-1 Scholarship Rule: The student shall be currently enrolled in not fewer than five subjects, or their equivalent, offered for credit and which may be used for graduation, and have passed five subjects, or their equivalent, offered for credit which may be used for graduation the immediately preceding semester for schools that certify credit on a semester basis. You may not count a repeat class as part of the five if you have previously received credit for the class.

28-4-2 Age Rule: The student shall not have reached the age of 19 on or before the first day of August of the school year in which he/she wishes to compete.

NCAA/NAIA Academic Eligibility and Approved Courses

If you are a high school athlete and you wish to participate in athletics as a freshman in college, you must apply to the NCAA Clearinghouse or the NAIA before graduation or preferably the end of your junior year. To qualify you must graduate from high school, complete a core list of subjects and attain a certain level on your ACT or SAT test. These rules are varied for the different levels. Please see either the Athletic Director or your School Counselor for more information on this process.

2017-2018 SEQUENCES FOR CAREER/TECHNICAL CERTIFICATES

ARTS, AUDIO/VIDEO TECHNOLOGY CAREER CLUSTER

Computer Information Systems (18/36 wks) – Grades 9- 12
Computer Information Systems Advanced (18/36 wks) – 10- 12
Design, Multimedia and Web Technologies (18/36 wks) – Grades 9-12
Principles of Business Marketing (18/36 wks) – Grades 10- 12
Programming Grades 9-12
Programming Advanced Grades 10-12
Word Processing (18/36 wks) – Grades 9-12

BUSINESS MANAGEMENT AND ADMINISTRATION

Any **two** 36-week courses or semester equivalents that equal two 36-week courses

Accounting – Grades 9-12
Accounting Advanced – Grades 10-12
Business Management (18/36 wks) – Grades 10-12
Computer Information Systems (18/36 wks) – Grades 9- 12
Computer Information Systems Advanced (18/36 wks) – 10- 12
Medical Systems Administration (18/36 wks) – Grades 10- 12
Principles of Business Marketing (18/36 wks) – Grades 10- 12
Word Processing (18/36 wks) – Grades 9-12
Entrepreneurship/Automotive Technology III (36wks) – Grades 11-12

HOSPITALITY AND TOURISM

All completers of Hospitality and Tourism Education programs must successfully pass the minimum competencies of each program along with fulfilling specific course seat hours.

CULINARY ARTS

Introduction to Culinary – Grades 9-12
Introduction to Hospitality, Tourism, and Recreation (18/36 wks) – Grades 9-12
Culinary Arts I – Grades 9-12
Culinary Arts II – Grades 10-12
Culinary Arts Specialization – Grade 12

HUMAN SERVICES

And, any **two** 36-week courses or semester equivalents that equal two 36-week courses

Family Relations (18/36 wks) – Grades 9-12
Independent Living (18/36 wks) – Grades 9-12
Individual Development (18/36 wks) – Grades 9-12
Introduction to Hospitality, Tourism, and Recreation (18/36 wks) – Grades 9-12
Nutrition and Wellness (18/36 wks) – Grades 9-12

INFORMATION TECHNOLOGY

Computer Information Systems (18/36 wks) – Grades 9-12
Computer Information Systems Advanced (18/36 wks) – Grades 10-12
Design, Multimedia and Web Technologies (18/36 wks) – Grades 9-12
Information Technology Fundamentals – Grades 9-10
Programming – Grades 9-12
Programming Advanced – Grades 10-12
Advanced Programming – Grades 10-12
Computer Technologies – Grades 9-12
Computer Technologies – Grades 10-12
Cybersecurity Fundamentals – Grades 9-12
Cybersecurity Software Operations – Grades 10-12
Medical Systems Administration (18/36 wks) – Grades 10- 12
Word Processing (18/36 wks) – Grades 9-12

SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

Accounting – Grades 9-12
Accounting Advanced – Grades 10-12
Computer Information Systems (18/36 wks) – Grades 9- 12
Computer Information Systems Advanced (18/36 wks) – 10- 12
Cybersecurity Fundamentals – Grades 9-12
Cybersecurity Software Operations – Grades 10-12
Design, Multimedia and Web Technologies (18/36 wks) – Grades 9-12
Energy and Power (18/36 wks) – Grades 10-12
Engineering Drawing and Design – Grades 10-12
Information Technology Fundamentals – Grades 9-10
Programming – Grades 9-12
Programming Advanced – Grades 10-12
Renewable Energy – Grades 10-12
Technical Drawing and Design (18/36 wks) – Grades 10-12

TRADE AND INDUSTRIAL

All completers of a Trade and Industrial Education program must successfully pass the minimum competencies of each program. These three programs are Automotive Technology, Carpentry and Electricity along with fulfilling specific course seat hours.

TRANSPORTATION, DISTRIBUTION & LOGISTICS

AUTO TECHNOLOGY

Automotive Technology I – Grades 9-12
Automotive Technology II – Grades 10-12
Entrepreneurship/Automotive Technology III – Grades 11, 12

ARCHITECTURE & CONSTRUCTION

CARPENTRY/CABINETMAKING

Carpentry I – Grades 9-12
Carpentry II – Grades 10-12
Cabinetmaking I – Grades 11-12
Cabinetmaking II – Grade 12

ELECTRICITY

Electricity I – Grades 9-12
Electricity II – Grades 10-12
Electricity III – Grades 11-12