
SECONDARY COURSE PLANNING GUIDE

POWHATAN MIDDLE SCHOOL

POWHATAN HIGH SCHOOL

2023-2024



Powhatan County Public Schools Portrait of a Graduate

Empowering Today to Innovate Tomorrow

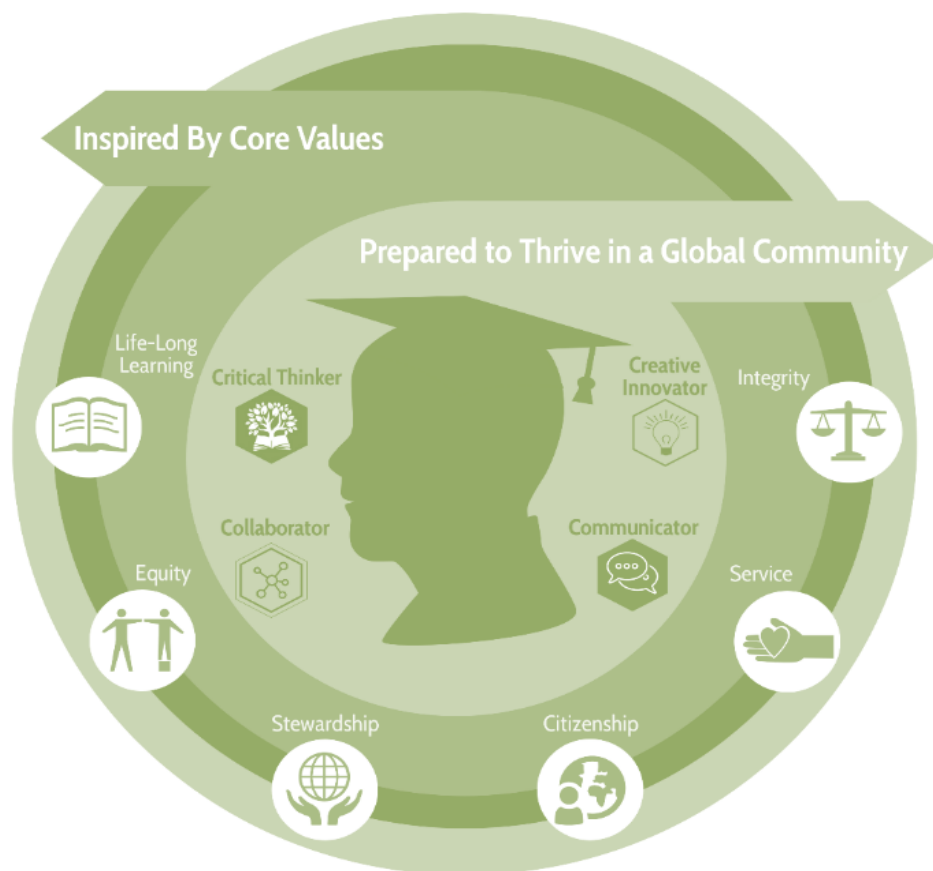


TABLE OF CONTENTS

GENERAL INFORMATION	1
DIPLOMAS AND CERTIFICATES	4
ENGLISH AND LANGUAGE ARTS	7
MATHEMATICS	9
COMPUTER SCIENCE	11
SCIENCE	12
HISTORY AND SOCIAL SCIENCES	14
HEALTH, PHYSICAL EDUCATION AND DRIVERS' EDUCATION	16
WORLD LANGUAGES.....	17
ELECTIVES AND EXPLORATORY– MIDDLE SCHOOL.....	18
FINE AND PERFORMING ARTS.....	20
ART.....	20
MUSIC (INSTRUMENTAL, VOCAL, THEORY, AND APPRECIATION)	21
THEATRE ARTS.....	23
CAREER AND TECHNICAL EDUCATION	24
AGRICULTURE / HORTICULTURE / FOOD AND NATURAL RESOURCES	24
BUSINESS, MARKETING, ECONOMICS, AND INFORMATION TECHNOLOGY	25
CARPENTRY AND ELECTRICITY	26
COSMETOLOGY	27
CULINARY ARTS / HOSPITALITY AND TOURISM.....	27
ENGINEERING	28
FAMILY AND CONSUMER SCIENCES / EDUCATION AND TRAINING.....	28
FIREFIGHTING.....	28
HEALTH AND MEDICAL SCIENCES	29
JROTC.....	29
EXCEPTIONAL EDUCATION	30
ONLINE COURSES AND DUAL ENROLLMENT	31
ONLINE OPTIONS THROUGH APEX, PHS AND VIRTUAL VIRGINIA	31
LONGWOOD UNIVERSITY	31
REYNOLDS COMMUNITY COLLEGE –	32
___ DUAL ENROLLMENT	32
___ ADVANCE COLLEGE ACADEMY (ACA) –Reynolds Community College / PHS.....	32
NON-CREDIT COURSES	33
ALTERNATIVE EDUCATION	33
SUGGESTED COURSE SEQUENCES	34
ARCHIVED SCHOOL BOARD APPROVED COURSES	35

GENERAL INFORMATION

This course planning guide is designed to assist students in grades six through twelve, and their families, as they make educational decisions to become college or career ready. All students enrolled in Powhatan County Public Schools are expected to earn an advanced studies diploma or a standard diploma with a career and technical education concentration or specialization. The program of studies provides a background needed to begin a career or enter an institution of higher learning. Elective classes will be offered if there is sufficient enrollment and staff is available.

GRADES, CREDIT, TRANSCRIPT, CLASS RANK, AND GPA

Students who successfully complete high school courses, including those prior to promotion from middle school, earn high school credit toward graduation. However, grades earned in high school courses taken in middle school are not counted as part of the high school cumulative grade-point average (GPA). Rising ninth graders who take high school courses in summer school earn credits toward graduation, and their grades are included in the GPA calculation. Quality points are assigned to each course grade according to the following scale:

Letter Grade	Numeric Grade	Quality Points		
		Regular	Honors Regular + .5	AP/Dual Enrollment Regular + 1.0
A+	97-100	4.0	4.5	5.0
A	93-96	4.0	4.5	5.0
A-	90-92	3.7	4.2	4.7
B+	87-89	3.3	3.8	4.3
B	83-86	3.0	3.5	4.0
B-	80-82	2.7	3.2	3.7
C+	77-79	2.3	2.8	3.3
C	73-76	2.0	2.5	3.0
C-	70-72	1.7	2.2	2.7
D+	67-69	1.3	1.8	2.3
D	65-66	1.0	1.5	2.0
F	0-64	0.0	0.0	0.0

Weighted quality points are awarded for honors, AP, and Dual-Enrollment courses. The total number of quality points is calculated by multiplying the unit of credit for each course and the quality points assigned to the final course grade and then dividing the total quality points earned by the number of credits attempted.

Class rank is determined by arranging the GPA values in descending order with the student with the highest GPA being ranked first, the student with the second highest GPA being ranked second, and so on. Class rank is first calculated at the end of the 10th grade year.

Transcripts contain students' courses, final course grades, attendance, verified credits, and test scores. Many courses have letter codes at the end of the course number that provide additional information about the course and/or weighting of the course. This information is shown not on the transcript, but in the course guide and on report cards. Please review the codes in the table below.

Abbreviation preceding or following course name/number	Designation	Weighted Credit
A	Advanced	No Quality Points – Middle School only
ACA	Advance College Academy	Weighted Quality Points
AP	Advanced Placement	Weighted Quality Points
DB	Double Block	Depends on the course
DE	Dual Enrollment	Weighted Quality Points
EL	Elective in a core subject	Depends on the course
H or Honors	Honors	Weighted Quality Points
ON	Online	Depends on the course
W	Weighted	Weighted Quality Points

A student can elect in writing to have the student's test record excluded from the student transcript. The test record includes at least the highest score earned, if applicable, on college performance-related standardized tests such as SAT and ACT, excluding Standards of Learning (SOL) test scores.

HONOR ROLL

Students must be enrolled in at least 5 credits. Honor Roll is awarded at the end of each 9-weeks and is based on a 3.0 GPA or all As. The GPA (utilizing weighted credit) is used to determine Honor Roll.

PROMOTION / RETENTION POLICY

Middle School. Students are required to pass five of seven classes that must include three of four core (English, math, science, history/social sciences) classes, to be promoted to the next grade level. Students not passing English or Math must complete summer school.

High School. Students are promoted based on the number of total credits earned.

9th grade – A student must have been promoted from middle school.

10th grade - A student must have earned a minimum of 5 credits and must be enrolled in English 10.

11th grade - A student must have earned a minimum of 10 credits and must be enrolled in English 11.

12th grade - A student must have earned 15 credits and must be enrolled in English 12. Current schedule must include all courses and credits required for graduation.

HONORS PLACEMENT

To enroll in an honors level course in English, mathematics, science, or social studies for the first time, students must have a teacher recommendation or an 'A' in the preceding course in the specific subject area. To be successful in an honors class the student must have the ability to succeed in classes with increased workloads and greater responsibility for independent work.

SCHEDULE CHANGES

Requests for class changes for the upcoming school year should be submitted on course verification forms given out in the spring. Class changes for the upcoming school year must be made prior to **March 10**. The only changes that will be considered once school starts are to place a student in the correct class level or a required course that was omitted.

High School Only. If changes occur before the end of the first nine weeks (with permission of the principal), the original course and earned grade will not appear on the student's record. The only exceptions are changes within the same academic discipline; the earned grade from the original course will be transferred to the new course. Courses dropped after the end of the first marking period (with permission of the principal) will appear on the student's permanent record as withdraw passing (WP) or withdraw failing (WF) depending on the student's grade. WFs are calculated in the student's cumulative GPA.

REPEATING COURSES

Middle School Only. Students taking a high school credit course during middle school may repeat the course at the high school level. Students wishing to remove the original course and grade (from the middle school) from their high school transcript should submit their request in writing to the high school counseling department prior to August 1 preceding the 9th grade year. If the original (middle school) course and grade are not removed, the course and grade will be included in the student's high school transcript.

High School Only. When students repeat a course, the original course and the repeat course with their grade are included on the transcript. Both grades will be counted toward the GPA. Students will only receive credit for the course with the higher grade.

CAREER AND TECHNICAL EDUCATION

Students are encouraged to explore the opportunities available through our career and technical education (CTE) departments. CTE courses allow students to learn "hands on" job skills in a variety of career fields. High school courses are offered in agriculture, business and information technology, carpentry and building trades, cosmetology, culinary arts, electricity, engineering, family and consumer sciences, firefighting, health and medical sciences, horticulture, JROTC, and technology education. Cooperative education programs allow students the opportunity to earn high school credit for working at an approved job through early release during their junior and senior years. Dual Enrollment courses may be offered in several CTE high school courses. Middle school courses are available in agriculture, computer literacy, technology, and family consumer sciences as exploratory options. In addition, many of our CTE programs provide students the opportunity to participate in Industry Certification and State Licensure testing. *Refer to diploma requirements for CTE credentials, if seeking a Standard Diploma.*

ACADEMIC YEAR GOVERNOR'S SCHOOLS AND REGIONAL PROGRAMS

Powhatan County Public Schools is a member school division in several regional programs. Students may apply for available slots at each program based on the school board's budgeted allocation for each school.

Maggie L. Walker Governor's School for Government and International Studies - The Maggie L. Walker Governor's School for Government and International Studies (MLWGS) is an innovative public high school offering a comprehensive college preparatory program emphasizing government, international studies, science, mathematics, languages, and fine arts. The school serves students selected on the basis of aptitude and interest in its mission.

Appomattox Regional Governor's School for the Arts and Technology - The Appomattox Regional Governor's School for the Arts and Technology provides gifted and talented students a differentiated and rigorous education, cultivates a supportive environment that inspires unique artistic and technological visions, promotes cultural tolerance, nurtures community partnerships, and produces active, engaged citizens

CodeRVA - CodeRVA is an innovative regional public high school in Central Virginia focused on preparing students for college and careers in computer science.

Goochland Public Schools – CTE Exchange Program – Students interested in CTE programs not offered at Powhatan High School can enroll at Goochland High School for their 11th and 12th grade years. Transfer is based on availability of space in the designated programs. Available courses at GHS will be determined and advertised during the course registration process.

OPPORTUNITIES TO EARN COLLEGE CREDIT

Advanced Placement Courses (AP) These courses offer college-level material and help to prepare students to take the Advanced Placement tests. Students who score above a specified level on the AP test(s) may be awarded college credit(s). Credit award decisions are made by academic departments at individual colleges. **Students will pay all fees associated with AP testing.** See your school counselor for information about eligibility for a fee waiver.

Dual-Enrollment Courses provide students the opportunity to earn high school and college credits simultaneously. These courses are offered by the Virginia Community College System and Longwood University.

Advance College Academy (ACA)

The ACA provides students the opportunity to earn an associate's degree in social sciences from Reynolds Community College (RCC) while also earning an Advanced Studies high school diploma. All 8th grade students are eligible to apply for acceptance into the ACA. Students who are selected will take honors and AP level courses during the 9th and 10th grades and dual enrollment college courses during the 11th and 12th grades, earning 60 college credits at a minimal cost to their parents. Credits are transferable based on college and university policy.

Concurrent Enrollment provides students the opportunity to earn college credits solely through a higher education institution. These courses will not appear on the high school transcript and are not calculated into a student's GPA.

ATHLETIC ELIGIBILITY

Middle School

To be eligible for participation in athletics at PMS, a student must not have failed more than one class the previous semester, and must be enrolled in the 6th, 7th, or 8th grade. If the student was placed or retained, they are not eligible to participate in athletics the entire first semester, but can be eligible the second semester if they are in good academic standing after the first semester.

High School

The Virginia High School League (VHSL) requires that students be enrolled in five credited classes and must have passed five classes the previous semester. Repeating a course for which a passing grade was received does not count toward the required five courses for athletic eligibility. First semester 9th graders are eligible for athletics based on their promotion from 8th grade. See VHSL www.vhsl.org for details. Students interested in college athletics should visit this website: www.eligibilitycenter.org.

Athletes are not allowed to have afternoon early release during the semester in which they play a sport. They can have morning Late Arrival. Be sure to note on your registration form if you are an athlete.

TITLE IX NOTICE

In accordance with federal laws, the laws of the Commonwealth of Virginia and the policies of the Powhatan County School Board, The Powhatan County Public School Division does not discriminate on the basis of sex, race, color, age, religion, disabilities, or national origin in the provision of employment and services. The Powhatan County Public Schools is an equal opportunity employer. The Section 504 and Title IX Coordinators may be reached at 4290 Anderson Hwy, Powhatan, VA 23139.

DIPLOMAS AND CERTIFICATES

STANDARD DIPLOMA

A student must earn at least 22 standard units of credit by passing required courses and electives, and earn at least five verified credits by passing end-of-course SOL tests or other assessments approved by the Board of Education. Credit accommodations allow students with disabilities to earn a Standard Diploma.

ADVANCED STUDIES DIPLOMA

A student must earn at least 26 standard units of credit by passing required courses and electives, and earn at least five verified credits by passing end-of-course SOL tests or other assessments approved by the Board of Education.

Other Notable Diploma Requirements (Standard and Advanced Studies)

- Students must earn 2 **sequential elective credits**.
- All students **MUST** take a **virtual course** – it may be non-credit bearing.
- Students must be trained in **emergency first aid**, cardiopulmonary resuscitation (**CPR**), and the use of **automated external defibrillators**, including hands-on practice of the skills necessary to perform CPR.
- Students must complete an **Advanced Placement, honors, or International Baccalaureate course, or earn a career and technical education credential** (all students entering 9th grade in 2018 and beyond).
- Students shall acquire and demonstrate foundational skills in the **5 Cs - critical thinking, creative thinking, collaboration, communication, and citizenship** in accordance with the Profile of a Virginia Graduate approved by the board.

DIPLOMA REQUIREMENTS

	Standard Diploma	Advanced Studies Diploma	Standard & Advanced Studies Diplomas
Discipline Area	22 Standard Credits	26 Standard Credits	5 Verified Credits
English	4	4	2 Reading & Writing
Mathematics	3 Two different courses from the following: Algebra 1, Geometry, Algebra Functions and Data Analysis, Algebra 2, or other courses above the level of Algebra 2	4 Three different courses from the following: Algebra 1, Geometry, Algebra 2, or other math courses above the level of Algebra 2	1
Laboratory Sciences	3 Two different science disciplines from the following: Earth Science, Biology, Chemistry, or Physics	4 Three different science disciplines from the following: Earth Science, Biology, Chemistry, or Physics	1
Social Studies	3 World History and Geography (1), U.S. and Virginia History (1), U.S. and Virginia Government (1)	4 World History and Geography (2), U.S. and Virginia History (1), U.S. and Virginia Government (1)	1
Health and Physical Education	2	2	
World Language, Fine Arts or CTE	2 1 credit has to be Fine Arts or CTE	3 Must take one world language for three years or two languages for two years	
Economics and Personal Finance	1	1	
Electives	4	4 1 credit has to be Fine Arts or CTE	

VERIFIED CREDITS

Students are required to earn a specified number of verified credits in order to meet the graduation standards for Standard and Advanced Studies diplomas. Students earn verified credits by passing designated core classes (Algebra 1, Geometry, Algebra 2, Earth Science, Biology, Chemistry, World Studies 1, World Studies 2, U.S. History, English 10, and English 11) and passing the corresponding SOL tests or approved substitute tests. Students must earn five verified credits for the Standard and Advanced Studies Diploma.

*To earn the English writing verified credit, students entering 9th grade will complete a portfolio including a total of three writing performance-based assessments in grades 9 through 11. **Several waivers were issued for 19-20 and 20-21. See VDOE website for details.**

APPLIED STUDIES DIPLOMA (formerly Special Diploma)

Available to students with disabilities who complete the requirements of their Individualized Education Plan (IEP) and who do not meet the requirements for other diplomas. The decision to pursue this diploma is made by the student's IEP team.

CERTIFICATE OF PROGRAM COMPLETION

Available to students who complete prescribed programs of studies defined by a local school board but who do not qualify for diplomas.

GENERAL ACHIEVEMENT DIPLOMA (GAD)

Available to students 18 years or older who meet the criteria set by the Board of Education. The requirements for the General Achievement Diploma include prescribed standard units of credit and a passing score on the General Educational Development (GED) examination.

GENERAL EDUCATION DEVELOPMENT CERTIFICATES (GED)

Refer to *Regulations Governing General Education Development Certificates* (8 VAC 20-360-10, et. seq.), see

<https://www.doe.virginia.gov/teaching-learning-assessment/specialized-instruction/adult-education/high-school-equivalency-hse-credential>

DIPLOMA SEALS

Students meeting requirements for graduation and demonstrating exemplary performance may receive diploma seals for recognition.

Governor's Seal – Awarded to students who complete the requirements for an Advanced Studies Diploma with an average grade of 'B' or better, and successfully complete college-level coursework that will earn the student at least nine transferable college credits in Advanced Placement (AP) or dual enrollment courses.

Board of Education Seal – Awarded to students who complete the requirements for a Standard Diploma or Advanced Studies Diploma with an average grade of 'A'.

Board of Education's Career & Technical Education Seal – Awarded to students who:

- Earn a Standard or Advanced Studies Diploma and complete a prescribed sequence of courses in a career and technical education concentration or specialization that they choose 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.

Board of Education's Excellence in Civics Education Seal – Awarded to students who meet each of the following four criteria:

- Satisfy the requirement to earn a Standard Diploma or an Advanced Studies Diploma
- Complete Virginia & United States History and Virginia & United States Government courses with a grade of 'B' or higher
- Complete 50 hours of voluntary participation in community service or extracurricular activities.
- Have good attendance and no disciplinary infractions as determined by local school board policies.

Board of Education's Seal of Biliteracy – Awarded to students who earn a Board of Education-approved diploma and:

- Pass all required End-of-Course Assessments in English reading and writing at the proficient or higher level
- Demonstrate proficiency at the intermediate-mid level or higher in one or more languages other than English as demonstrated through an assessment form a list approved by the Superintendent of Public Instruction. American Sign Language qualifies as a language other than English.

The Board of Education's Seal for Excellence in Science and the Environment shall be awarded to students who earn either a Standard Diploma or Advanced Studies Diploma and: (i) complete at least three different first-level board-approved laboratory science courses and at least one rigorous advanced-level or postsecondary-level laboratory science course, each with a grade of 'B' or higher; (ii) complete laboratory or field-science research and present that research in a formal, juried setting; and (iii) complete at least 50 hours of voluntary participation in community service or extracurricular activities that involve the application of science such as environmental monitoring, protection, management, or restoration.

Honor Graduate - Honor graduates with an overall GPA of 3.5 will be recognized during Senior Awards. Honor graduates receive a diploma seal.

Powhatan County Community Service Learning Seal – Awarded to students who complete 80 hours (or 20 hours annually for transfers) of community service to non-profit organizations during high school according to the set criteria.

STUDENT ACADEMIC AND CAREER PLAN – Grades 6-12

Students will utilize **MajorClarity** to assist with career investigation and planning. In addition, students may refer to available career clusters: <https://www.cteresource.org/career-clusters/>, though not all courses may be available through PCPS.

ENGLISH AND LANGUAGE ARTS

ENGLISH 6

EN1109

- ✓ **SOL** reading test
- Read a variety of fiction and nonfiction selections.
- Distinguish between fact and opinion.
- Develop vocabulary and begin to study word origins.
- Understand differing viewpoints, and analyze the effectiveness of group communication.
- Plan, draft, revise, and edit writings to describe, to persuade, to entertain, and to explain.
- Study various aspects of media literacy.

ENGLISH 7

EN1110

- ✓ **SOL** reading test
- Develop oral communication skills.
- Refine written composition skills.
- Focus on vocabulary development.
- Increase proficiency in print and electronic information resources.
- Understand literary elements contained in short stories, poetry, nonfiction, drama, and novels.

ENGLISH 8

EN1120

- ✓ **SOL** reading and writing test
- Understand literary elements contained in short stories, poetry, nonfiction, and drama.
- Focus on the writing process.
- Develop interview techniques.
- Study the influence of mass media.

ENGLISH 8 ADVANCED

EN1120A

- ✓ **SOL** test
- Focus on the writing process including projects and advanced writing activities.
- Intensive reading assignments, supplemental, novels and plays.
- Understand literary elements contained in short stories, poetry, nonfiction, and drama.
- Study the influence of mass media.
- Engage in vocabulary study as well as oral presentations.

Teacher recommendation

ENGLISH 9

EN1130 (1 credit)

- ✓ Students will complete performance assessments as a part of a two- to three-year portfolio to earn a writing **SOL (Writing) verified credit.**
- Explore prose, poetry, and drama from different cultures and eras.
- Build reading comprehension through guided and independent practice of skills and strategies.
- Develop writing pieces in multiple genres for a variety of purposes and audiences.
- Develop clear thesis statement along with the correct usage of grammar, punctuation, and mechanics.
- Use a variety of technology resources to create documents and projects.

ENGLISH 9 HONORS

EN1130W (1 credit)

- ✓ Students will complete performance assessments as a part of a two- to three-year portfolio to earn a **SOL (Writing) verified credit.**
- Explore prose, poetry, and drama from different cultures and eras.
- Develop clear thesis statement along with the correct usage of grammar, punctuation, and mechanics.
- Use a variety of technology resources to create documents and projects.
- Conduct research.

Teacher recommendation

ENGLISH 10

EN1140 (1 credit)

- ✓ Students will complete performance-based assessments as a part of a two- to three-year portfolio to earn an **SOL (Writing) verified credit.**
- Read and critique literary works from a variety of cultures and eras.
- Focus on practical communication skills, composition, vocabulary, and literature.
- Write various types of compositions, including a research paper.

ENGLISH 10 HONORS

EN1140W (1 credit)

- ✓ Students will complete performance-based assessments as a part of a two- to three-year portfolio to earn an **SOL (Writing) verified credit.**
- Read and critique literary works from a variety of cultures and eras.
- Focus on practical communication skills, composition, vocabulary, and literature.
- Write various types of compositions, including a research paper.
- Read, research, discuss, write, and study vocabulary with college-bound rigor.
- Independent reading required outside of the classroom.

Teacher recommendation

ENGLISH 11

EN1150 (1 credit)

- ✓ **SOL** End of Course tests (Reading)
- ✓ Students will complete performance-based assessments as a part of a two- to three-year portfolio to earn an **SOL (Writing) verified credit.**
- Read a survey of American literature.
- Examine and evaluate a variety of genre.
- Write with an emphasis on persuasion.
- Enhance knowledge of proper research techniques

ENGLISH 11 HONORS

EN1150W (1 credit)

- ✓ **SOL** End of Course test (Reading)
- ✓ Students will complete performance-based assessments as a part of a two- to three-year portfolio to earn an **SOL (Writing) verified credit.**
- Read a survey of American literature.
- Write with an emphasis on persuasion.
- Enhance knowledge of proper research techniques.
- Gain insight into history and culture through the study of various genres.
- Explore the relationship between style and meaning in literature.

Teacher recommendation

AP ENGLISH 11 (Language and Composition)*EN1196W (1 credit)***AP exam fee and book fee**

- ✓ **SOL** End of Course test (Reading)
- ✓ Students will complete performance-based assessments as a part of a two- to three-year portfolio to earn an **SOL (Writing) verified credit**.
- Read a variety of American literature and other texts, both fiction and non-fiction to make connections and inferences, in order to synthesize and evaluate texts to construct and demonstrate meaning through an assortment of student-centered products that include argument, rhetorical analysis, and synthesis frameworks for writing.
- Contribute through class participation, research, and independent study.
- Complete simulated AP exams.

*Summer Assignment required**Teacher recommendation*

ENGLISH 12*EN1160 (1 credit)*

- Explore a survey of British and world literature.
- Examine and evaluate a variety of genres while focusing on the historical and cultural backgrounds.
- Prepare journals, resumes, and research papers.
- Practice public speaking and vocabulary study.

ENGLISH 12 HONORS*EN1160W (1 credit)*

- Explore a survey of British and world literature. Examine and evaluate a variety of genres while focusing on the historical and cultural backgrounds.
- Practice public speaking and vocabulary study.
- Prepare for college English courses.
- Complete a variety of writing assignments including writing for specific audiences, reaction logs, essays, literary analyses, and a well-documented major research paper.

Teacher recommendation

AP ENGLISH 12 (Literature and Composition)*EN1195W (1 credit)*

- Use various world literature genres to hone reading, analytical, research, and writing skills.
- Requires independent study, research, class participation, considerable outside (including summer) reading and writing.
- Perform timed writing assignments, and simulated AP tests.
- Earn college credits / class placement based on their AP test scores.

*Teacher recommendation***ENGLISH 12 - Dual Enrollment (non-ACA)***DE1160W/ ENGLISH 111 & 112 (1 credit, college credit)*

Prerequisite: English 11, Teacher Recommendation

ENG 111

- Introduces and prepares students to the critical processes and fundamentals of writing in academic and professional contexts.
- Teaches the use of print and digital technologies to promote inquiry.
- Requires the production of a variety of academic texts, totaling at least 4500 words (15 pages typed) of polished writing.
- This course requires proficiency in using word processing and learning management software.

ENG 112

- Further develops students' ability to write for academic and professional contexts with increased emphasis on argumentation and research.
- Requires students to evaluate, integrate, and document print and digital sources to produce a range of academic and multimodal texts, culminating in a fully documented research paper.

JOURNALISM*EL1200 (1 credit), 10th-12th grade*

- Work in various media to publish the school newspaper, news releases, and stories for the high school.
- Learn news writing, layout, photography, and business skills.
- Utilize strong writing skills, the ability to work independently and meet deadlines, and a willingness to work beyond the classroom.
- Expand existing computer, photography, and visual art skills.

PHOTOJOURNALISM*EL1215 (1 credit)*

- Work cooperatively with the adviser to produce the yearbook.
- Assume responsibility for all production aspects, cover design, page creation, photography, interviews, and distribution.
- Utilize strong editing skills, work independently to meet deadlines, and display a willingness to work beyond the classroom.
- Utilize Canva and yearbook vendor software.

INTRODUCTION TO FILM*EL11056 (1 credit), 11th- 12th grade*

- Read about the history of film and the reflection or influence of film on the culture.
- Learn to appreciate, analyze and interpret stories, characters, story structure, and narrative technique through the medium of film.
- Appreciate the similarities of a director and an author in the craft of storytelling.
- Develop and reinforce: 1) oral and written communication skills; 2) critical thinking skills; 3) an ability to write analytical essays and film critiques; 4) the habit of viewing moving images critically rather than passively.

Teacher Recommendation

MATHEMATICS

MATH 6

MA3110

✓ SOL test

- Emphasis placed on foundations of algebra.
- Rational numbers.
- Rational numbers will be used to compare data sets and to represent decimals, fractions, and percentages.
- Single-step and multistep problems will be solved that include rational numbers.
- Linear equations will be solved and students will use algebraic terminology.

MATH 7

MA3111

✓ SOL test

- Understand proportional reasoning and integer computation.
- Solve two-step linear equations.
- Recognize different representations for relationships.
- Apply the properties of real numbers in solving equations, inequalities.
- Use data analysis techniques to make inferences, conjectures and predictions.

MATH 8

MA3112

✓ SOL test

- Solve multi-step equations.
- Perform geometric transformations.
- Graph linear equations.
- Use matrices and interpret data.

MATH FOUNDATIONS

MA3110DB (6th), 3111DB (7th), 3112DB (8th)

- Elective math course (double-block)
- Provides foundational support for math concepts aligned with required grade level math course.

***Students enrolled in Integrated Math 1 (6th grade), Integrated Math 2 (7th grade) Integrated and Algebra 1 (8th grade) in Middle School will follow an integrated curriculum that will also include the Math 8 curriculum over the course of three years.**

INTEGRATED MATH 1 (6th) *

MA3110A

Middle School

✓ SOL test

- Focus on arithmetic and algebra to prepare students for Algebra I.
- Solve complex multi-step equations, represent and interpret data, and use problem-solving techniques to examine real-life applications of math concepts.
- Properly use mathematical language and symbols when problem solving.

Teacher recommendation

INTEGRATED MATH 2 (7th) *

MA3111A

✓ SOL test

- Designed as a “bridge” between arithmetic and algebra to prepare students for Algebra I.
- Solve complex multi-step equations, represent and interpret data, use problem-solving techniques to examine real-life applications of mathematical concepts.
- Properly use mathematical language and symbols when problem solving.

Teacher recommendation

ALGEBRA 1*

MA3130 (1 credit)

Middle or High School

✓ SOL End of Course test

- Evaluate and simplify and translate algebraic expressions.
- Graph and solve linear equations, quadratic functions, inequalities and systems.
- Apply algebraic concepts and processes to the real world.

Teacher recommendation (Middle School)

Graphing calculator optional

GEOMETRY

MA3143 (1 credit)

Middle or High School

✓ SOL End of Course test

- Develop logical, deductive systems from simple statements.
- Work with postulates and theorems as they relate to points, lines, and planes in space.
- Study polygons, circles, right triangle trigonometry and three dimensional figures.
- Proofs (formal and informal) and constructions are used in problem solving.

Graphing calculator optional

GEOMETRY HONORS

MA3143W (1 credit)

✓ SOL End of Course test

- Develop logical, deductive systems from simple statements.
- Work with postulates and theorems as related to points, lines, and planes in space.
- Study polygons, circles, right triangle trigonometry and three dimensional figures.
- Use proofs and constructions in problem solving.
- Accelerate pace of learning to begin an exploration of trigonometry.

Graphing calculator optional

Teacher recommendation

ALGEBRA, FUNCTIONS, and DATA ANALYSIS

MA3134 (1 credit)

- Strengthen foundations in Algebra.
- Study functions and their behaviors, systems of inequalities, probability, experimental design and implementation, and analysis of data within the context of mathematical modeling.
- Generate data by practical applications arising from science, business, and finance.

DATA SCIENCE

MA02911 (1 credit)

- Provide an introduction to the learning principles associated with analyzing big data.
- Use open source technology tools to identify and explore problems that involve the use of relational database concepts and data-intensive computing to find solutions and make generalizations.
- Engage in a data science problem-solving structure to interact with large data sets as a means to formulate problems, collect and clean data, visualize data, model using data, and communicate effectively about data formulated solutions.

Prerequisite: Geometry and/or AFDA

ALGEBRA 2

MA3135 (1 credit)

- ✓ SOL End of Course test
- Investigate advanced algebraic concepts through the study of functions, families of functions, transformations, equations, inequalities, systems of equations and inequalities, polynomials, rational and radical equations, complex numbers, and sequences and series.
- Conduct practical applications and modeling.

Graphing calculator highly recommended

ALGEBRA 2 HONORS

MA3135W (1 credit)

- ✓ SOL End of Course test
- Investigate advanced algebraic concepts through the study of functions, families of functions, transformations, equations, inequalities, systems of equations and inequalities, polynomials, rational and radical equations, complex numbers, and sequences and series.
- Conduct practical applications and modeling.
- Develop an in-depth understanding of the topics as well as to draw relationships among the concepts studied.

Graphing calculator highly recommended

Teacher recommendation

PROBABILITY and STATISTICS

MA3190 (1 credit)

- Explore concepts and techniques for collecting, displaying and analyzing data, drawing conclusions, and making predictions.
- Investigate measures of central tendency and variation, probability and probability models, combinatorics, and experimental design.
- Investigate sampling distributions and other tools to make inferences about populations from sample statistics.

Graphing calculator highly recommended

MATH ANALYSIS

MA3162 (1 credit)

- Develop understanding of algebraic and transcendental function with a focus on polynomials, exponential, logarithmic, rational, and radical functions, and conic sections.
- Examine the relationship between algebra, geometry, and trigonometry and their real world applications.

Graphing calculator required

Teacher recommendation

MATH ANALYSIS HONORS

MA3162W (1 credit)

- Develop understanding of algebraic and transcendental function with a focus on polynomials, exponential, logarithmic, rational, and radical functions, and conic sections.
- Examine the relationship between algebra, geometry, and trigonometry and their real world applications.
- Complete projects throughout the course with a focus on applications and modeling of functions.
- Justify reasoning both by oral and written communication utilizing the language of mathematics, logic of procedure, and interpretation of results.

Graphing calculator required

Teacher recommendation

MATH ANALYSIS - Dual Enrollment (non-ACA)

DE3162W / MTH167 (1 credit, college credit)

- Prepare for the skills and level of rigor needed for successful study in a sequence of courses in calculus with analytic geometry.
- Present topics in power, polynomial, rational, exponential, and logarithmic functions, systems of equations, trigonometry, and trigonometric applications, including Law of Sines and Cosines. Provide an introduction to conics.

Graphing calculator required

Teacher recommendation

CALCULUS HONORS

MA3176W (1 credit)

- Introduces topics in analytical geometry, the calculus of algebraic and transcendental functions including the study of limits, derivatives, differentials, and an introduction to integration along with their applications.
- Provides the opportunity to learn the fundamentals of calculus as well as real world applications to prepare them for the first year of calculus in college.

Prerequisite: Math Analysis

Graphing calculator required

Teacher recommendation

AP CALCULUS A/B

MA3177W (1 credit)

AP exam fee

- Focus on topics in differential and integral calculus.
- Uses a multi-representational approach to calculus, with concepts, results, and problems expressed graphically, numerically, analytically, and verbally.
- Explore connections among these representations to build understanding of how calculus applies limits to develop important ideas, definitions, formulas, and theorems.
- Emphasize clear communication of methods, reasoning, justifications, and conclusions.
- Uses the big ideas of calculus (e.g., modeling change, approximation and limits, and analysis of functions).
- Use definitions and theorems to build arguments and justify conclusions.

Graphing calculator required

Teacher recommendation

AP STATISTICS

MA3192W (1 credit)

AP exam fee

- Introduce concepts and tools for collecting, analyzing, and drawing conclusions from data.
- Explore data (describing patterns and departures from patterns).
- Sample and experimentation (planning and conducting a study).
- Anticipate patterns (exploring random phenomena using probability and simulation).
- Use statistical inference (estimating population parameters and testing hypotheses).

Graphing calculator required

Teacher recommendation

COMPUTER SCIENCE

Courses may qualify as a Math, Science, or CTE credit

GAME DESIGN & DEVELOPMENT / INTRODUCTION TO PROGRAMMING

MA3184 (1 credit)

- Utilize different gaming programming languages such as Scratch, AppInventor and Construct 3 to develop Video Games.
- Use programming skills to create computer games that will include graphics, sound and animation.
- Explore concepts of the science behind computers.
- Gain an understanding of how computers, mobile technology and the internet function.
- Design and build small scale applications and simple program.

ADVANCED GAME DESIGN & DEVELOPMENT/INTRO TO COMPUTER SCIENCE

CS6641 (1 credit)

- Utilize different gaming programming languages to develop Video Games.
- Develop introductory level programming skills including programming logic and problem solving, and design techniques of an event-driven programming language.
- Use programming skills to create computer games that will include graphics, sound and animation.
- Develop knowledge of fundamental structure of computer systems, with an emphasis on problem solving and structured programming.
- Prepare to take AP Computer Science.

Teacher recommendation

CYBERSECURITY FUNDAMENTALS

CS6302 (1 credit)

- Explore the field of cyber security in this introductory class.
- Learn the basics of networking and the Internet.
- Discover the difference between white hat and black hat hacking.
- Investigate tools of the trade – software & hardware.
- Explore different operating systems.
- Study historical and current day cryptography.
- Explore careers in cyber security.

Teacher recommendation

AP COMPUTER SCIENCE

MA3185W (1 credit)

AP exam fee

- Explore programming methodology, algorithms, and data structures to provide topics for programming assignments in which students can apply their knowledge.
- Utilize Java for implementing computer solutions to problems.

Prerequisite: Algebra 1

Teacher recommendation

AP COMPUTER SCIENCE: PRINCIPLES

CS3201W (1 credit)

AP exam fee

- Introduce students to the central ideas of computer science, to instill ideas and practices of computational thinking, and to have students engage in activities that show how computing changes the world.
- Explore rigorous and rich computational content, including computational and critical thinking skills, and engage students in the creative aspects of the field.

Prerequisite: Algebra 1

Teacher recommendation

COMPUTER SYSTEMS TECHNOLOGY I (TECH BAR)

CS8622 (1 credit)

- Enter the world of computer technology and gain practical experience in assembling a computer system.
- Install, configure, and secure various operating systems.
- Troubleshoot computers and peripherals and use system tools and diagnostic software.
- Develop skills in computer networking and resource sharing.
- May qualify to take the CompTIA A+ certification exam.

SCIENCE

SCIENCE 6

SC4105

- Study methods for testing the validity of predictions and conclusions.
- Learn to use laboratory tools and design experiments.
- Study the transformations of energy and matter, the solar system and space exploration.
- Focus on the role of the sun's energy in Earth's systems on water, on air and atmosphere, and on basic chemistry concepts.
- Emphasize natural resource management, public policy, and cost/benefit tradeoff.
- Content tested on the Science 8 SOL test.

LIFE SCIENCE 7

SC4115

- Study living organisms at the cellular and systems level of organization.
- Learn how biologists classify organisms.
- Explore patterns in nature, including ecosystem dynamics, genetics and chemical cycles.
- Participate in hands-on activities, labs and research.
- Content tested on the Science 8 SOL test.

PHYSICAL SCIENCE 8

SC4125

SC4215A Advanced

✓ SOL test

- Study the nature and structure of matter, chemical and physical change, and chemical reactions.
- Explore concepts in physics, including energy transfer, Newton's Laws, force, electricity, light, and sound.
- Design and conduct lab experiments relevant to the curriculum.
- Apply basic algebra to perform calculations using physics formulas.
- Content tested on the Science 8 SOL test.

Teacher recommendation (Advanced only)

ENVIRONMENTAL SCIENCE

SC4300 (1 credit)

- Identify and investigate problems scientifically.
- Demonstrate an understanding of the nature of science and scientific reasoning and logic.
- Investigate and understand the fundamentals of matter and its interactions.
- Investigate and understand that the Earth is one interconnected system to include the hierarchy and the flow of energy within an ecosystem.
- Investigate and understand Earth's resources. and the human impact on our environment.

May take Biology 2: Ecology OR Environmental Science, but not both for credit

EARTH SCIENCE

SC4210 (1 credit)

- Identify and investigate problems scientifically.
- Demonstrate an understanding of the nature of science and scientific reasoning and logic.
- Study geology, astronomy, meteorology, and oceanography.

BIOLOGY 1

SC4310 (1 credit)

✓ SOL End of Course test

- Study living organisms at the molecular, cellular, and system levels of organization.
- Explore genetics, evolution, classification, ecology, and scientific investigation.
- Perform laboratory work and research science concepts.

BIOLOGY 1 HONORS

SC4310W (1 credit)

✓ SOL End of Course test

- Study living organisms at the molecular, cellular, and system levels of organization.
- Explore genetics, evolution, classification, ecology, and scientific investigation.
- Study principles of biochemistry, development of organisms, the study of heredity, and the relationship of organisms to their environment.
- Perform laboratory work and research projects requiring background research, hypotheses development, design procedures, data collection and analysis, and drawing conclusions about the scientific principles.

Teacher recommendation

EARTH SCIENCE 2: ADVANCED SURVEY OF EARTH SCIENCE TOPICS

SC4220 (1 credit)

- Explore a more detailed look at geology, meteorology, and astronomy.
- Explore and research landforms around the Earth, the nature of the sea and air, the geological history of the Earth from the perspective of not only the physical Earth but also life changing over geologic time, and the history as well as recent discoveries about our universe.
- Use hands-on activities to discover how scientists investigate the living world.

BIOLOGY 2: ECOLOGY

SC4340 (1 credit)

- Study the environment integrating topics of study from chemistry, biology and earth science.
- Develop skills to analyze the issues concerning the environment that carry on to real life situations.
- Conduct most labs outdoors.

May take Biology 2: Ecology OR Environmental Science, but not both for credit

BIOLOGY 2 HONORS: ANATOMY and PHYSIOLOGY

SC4330W (1 credit)

- Explore the body structure and function of animals.
- Dissect an animal to familiarize students with the internal structure of mammals. Study various systems of the body.
- Participate in other laboratory experiences which relate to the body system being studied.
- Complete research based project.
- Curriculum materials contain anatomical pictures, both male and female, of reproductive parts of the body.

Parents may request in writing an alternative to animal dissection. Va.

Code § 22.1-200.01

Teacher recommendation

CHEMISTRY

SC4410 (1 credit)

✓ SOL End of Course test

- Provide a thorough foundation in Chemistry for the college-bound student. Survey the major topics in inorganic chemistry (the study of matter, structure of atoms, chemical reactions and energy).
- Emphasize the quantitative treatment of data, development of critical thinking skills, abstract reasoning and their application.

Prerequisite: Geometry

Teacher recommendation

CHEMISTRY HONORS

SC4410W (1 credit)

- Investigate the structure of matter and chemical reactions, and advanced topics of molecular structure, thermodynamics and acid-base chemistry.
- Emphasize mathematical applications of chemistry.
- Emphasize math and problem solving.
- Perform research projects to develop hypotheses, design procedures, perform research, collect and analyze data, and draw conclusions about the scientific laws.

Minimum co-requisite: Algebra 2 (Algebra 2 Honors recommended)

Teacher recommendation (science and math)

PHYSICS 1

SC4510 (1 credit)

- Algebra-based, introductory physics course.
- Conduct inquiry-based investigations.
- Emphasize the practical application of physics laws in the real world.
- Study motion, waves, sound, light, electricity, magnetism, nuclear and modern physics.
- Gain an understanding of the general principles of physics.

Prerequisite: Algebra 1

Teacher recommendation

PHYSICS HONORS

SC4510W (1 credit)

- Algebra-based, introductory physics course.
- Conduct inquiry-based investigations.
- Emphasize the practical application of physics laws in the real world.
- Study motion, waves, sound, light, electricity, magnetism, nuclear and modern physics.
- Gain an understanding of the general principles of physics.

Minimum co-requisite: Algebra 2

Teacher recommendation

AP ENVIRONMENTAL SCIENCE

SC4270W (1 credit)

AP exam fee

- Focus on ecological processes, human impacts on the Earth, and how to resolve or prevent natural and human-made environmental problems.
- Stress scientific principles, analysis, and discussion.
- Prepare for the Advanced Placement exam.

Prerequisite: Concurrent enrollment in Biology H or completion of Biology and Algebra 1

Teacher recommendation

AP BIOLOGY

SC4370W (1 credit)

AP exam fee

- Equivalent of a 2 semester college introductory biology course.
- Focus on enduring, conceptual understandings and the content that supports them.
- Develop the reasoning skills necessary to engage in the science practices used throughout their study of AP Biology.
- Explore four “big ideas”: Evolution and Diversity, Biological Systems and Homeostasis, Cells and Genetics, and Interactions
- Conduct extensive lab reports.

Parents may request in writing an alternative to animal dissection. Va. Code § 22.1-200.01

Minimum Co-requisite: Chemistry

Teacher recommendation

AP CHEMISTRY

SC4470W (1 credit)

AP exam fee

- Equivalent of a 2 semester college introductory chemistry course.
- Develop advanced inquiry and reasoning skills.
- Design advanced experiments for collecting and analyzing data.
- Apply advanced mathematical routines.
- Connect concepts across domains.
- Study the advanced topics of thermodynamics, kinetics and equilibrium.
- Prepare for advanced topics in subsequent college chemistry courses.
- Prepare for the AP chemistry exam.

Prerequisite: Algebra 2 (Algebra 2 Honors recommended); Chemistry (Honors preferred)

Teacher recommendation (science and math)

AP PHYSICS I

SC4573W (1 credit)

AP exam fee

- Algebra-based, introductory college-level physics course.
- Conduct inquiry-based investigations.
- Study kinematics; dynamics; circular motion and gravitation; energy; momentum; simple harmonic motion; torque and rotational motion.

Concurrent enrollment in Algebra 2 or higher

Teacher recommendation

AP PHYSICS C: MECHANICS

SC4574W (1 credit)

AP exam fee

- A calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in one of the physical sciences or engineering.
- Cultivate understanding of physics through classroom study and activities as well as hands-on laboratory work as they explore concepts like change, force interactions, fields, and conservation.

Prerequisite: Physics, Algebra 2 or higher

TI-84 or higher calculator

Teacher recommendation (physics)

HISTORY AND SOCIAL SCIENCES

US HISTORY I – 6

SS2353

- Explores the history of the United States from pre-Columbian times until 1865.
- Examines fundamental concepts in civics, economics, and geography.
- Study documents that laid the foundation for American ideals and institutions.

INTEGRATED US HISTORY I – 6 ADVANCED

SS2353A

- Includes the same SOL required material as US History I while incorporating key relevant concepts from Civics and Economics 8.
- Work with additional primary source documents; completed advanced projects.

Teacher recommendation

US HISTORY II - 7

SS2354

- Examine history of the US from the end of the Civil War to the present-day.
- Learn concepts in Civics, Economics, and Geography.
- Develop an understanding of the American experience and how it shapes the world's political and economic landscape.

INTEGRATED US HISTORY II-7 ADVANCED

SS2354A

- ✓ Civics and Economics **SOL** test
- Examine US History II content while incorporating relevant concepts from Civics and Economics 8.
- Work with additional primary source documents; complete advanced projects.

Teacher recommendation

CIVICS AND ECONOMICS

SS2357

- ✓ **SOL** test
- Explore the roles citizens play in the political, government, and economic systems.
- Examine fundamental documents including the Constitutions of Virginia and the United States.
- Identify the rights, duties, responsibilities of citizens.
- Understand government at the local, state, and national level.

WORLD HISTORY & GEOGRAPHY TO 1500AD

SS2215 (1 credit)

Middle School or High School

- ✓ **SOL** End of Course test
- Understand pre-modern societies and the emergence of civilizations, religions, and political systems.
- Examine a chronological study of people, cultures, places, and patterns of significant civilizations to 1500AD.
- Emphasize the relationship between history and geography.

Teacher recommendation (Middle School)

AP HUMAN GEOGRAPHY

SS2212W (1 credit)

AP exam fee

- Introduction to the systematic study of patterns and processes that have shaped human understanding, use of, and alteration of Earth's surface.
- Employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences.
- Learn about methods and tools geographers use in their research and applications.

Teacher recommendation

WORLD HISTORY & GEOGRAPHY: 1500AD TO THE PRESENT

SS2216 (1 credit)

- ✓ **SOL** End of Course test
- Examine the political, social, economic, cultural, and scientific technological achievements of both the Eastern and the Western hemispheres.
- Emphasize relationships between history and geography.
- Develop analytical skills, reading comprehension, written expression and discern cause and effect.

WORLD HISTORY & GEOGRAPHY: 1500AD TO THE PRESENT HONORS

SS2216W (1 credit)

- ✓ **SOL** End of Course test
- Same as above (World History 2) with significant emphasis on comparative analysis, critical thinking, research, and writing.

Teacher recommendation

AP MODERN WORLD HISTORY

SS2380W (1 credit) – 10th grade

AP exam fee

- ✓ **SOL** End of Course test (World History 2)
- Examine an introduction to world history at the college-level, expanding students' intrinsic interest in world history.
- Concentrates on multiple perspectives and historical analysis, paying equal attention to civilizations of Asia, Africa, Europe, and the Americas.

Teacher recommendation

UNITED STATES and VIRGINIA HISTORY

SS2360 (1 credit)

- ✓ **SOL** End of Course test
- Analyze the historical development of American ideas and institutions from the Age of Exploration to the present.
- Explore the political, economic, and cultural history through a study of major issues, movements, people, and events in United States and Virginia history.

UNITED STATES and VIRGINIA HISTORY HONORS

SS2360W (1 credit)

- ✓ **SOL** End of Course test
- Same as above (US VA History) with significant emphasis on comparative analysis, critical thinking, research, and writing.

Teacher recommendation

AP UNITED STATES HISTORY

SS2319W (1 credit)

AP exam fee

- ✓ SOL End of Course test
- Provide advanced studies in United States history.
- Assess historical materials-their relevance to a given interpretive problem, their reliability, and interpretation presented in historical scholarship.
- Emphasize primary and secondary reading - an integral part of the course.

Teacher recommendation

UNITED STATES and VIRGINIA GOVERNMENT

SS2440 (1 credit)

- Examine fundamental constitutional principles, the rights and responsibilities for citizenship, the political culture, the policy-making process at each level of government, and the US market economy.
- Develop the personal traits and financial skills required for responsible citizenship.
- Emphasize problem based learning as a means of teaching good citizenship skills.

UNITED STATES and VIRGINIA GOVERNMENT HONORS

SS2440W (1 credit)

- Same as above (US VA Government) with significant emphasis on comparative analysis, critical thinking, research, and writing.

Teacher recommendation

AP UNITED STATES GOVERNMENT and POLITICS

SS2445W (1 credit)

AP exam fee

- Provide advanced studies in United States government while preparing the student to take the Advanced Placement Test.
- Incorporate research writing and historical interpretive essay writing.

Teacher recommendation

US GOVERNMENT - Dual Enrollment (non-ACA)

DE2440W / PLS 135 & 136 (1 credit, college credit)

PLS 135

- Teaches the political structure, processes, institutions, and policymaking of the US national government.
- Focuses on the three branches of government, their interrelationships, and how they shape policy.
- Addresses federalism; civil liberties and civil rights; political socialization and participation; public opinion, the media; interest groups; political parties; elections; and policymaking. The assignments in the course require college-level reading fluency and coherent communication through written reports.

PLS 136

- Teaches structure, powers, and functions of state and local government in the United States as related to federalism; constitutionalism; elections; powers of legislative, executive, and judicial powers of state and local government; state-local-federal relations; fiscal matters; metropolitan issues; and policy issues, like health, education, criminal justice and welfare.
- The assignments in the course require college-level reading fluency and coherent communication through written reports.

Prerequisite: US History, Teacher Recommendation

EMERGING LEADERS HONORS

EL9826W (1 credit)

- Study, analyze, and develop 21st century leadership skills.
- Form competitive teams and participate in the year-long Future Problem Solvers program.
- Collaborate to identify, organize, and implement a community service project following the guidelines of Community Problem Solving International.
- Present to local community or government organizations for feedback and revision.

Teacher recommendation / Application

PRACTICAL LAW

EL2420 (1 credit)

- Includes basic factual concepts as well as activities such as case studies, mock trials, role-playing, and small and large group exercises.
- Apply concepts and skills in a study of hypothetical situations and law -related current events.
- Develop the ability to analyze facts and circumstances objectively and to determine appropriate outcomes.

INTERNATIONAL AFFAIRS HONORS

EL2810W (1 credit)

- Examine major events influencing the politics of the international community.
- Topics include terrorism, trends in the Middle East and North Africa, conflict in the Indian subcontinent, the rise of the EU, International Law, Human Rights issues, and issues of population growth.
- Introduce the United Nations, its functions, and its responsibilities.
- Enhance written communication, negotiation, research, and public speaking skills.

Teacher recommendation

AP PSYCHOLOGY

EL2902 (1 credit), 11th - 12th grade

AP exam fee

- Introduce the systematic and scientific study of the behavior and mental processes of human beings and other animals.
- Consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology.
- Learn about the ethics and methods psychologists use in their science and practice.

AFRICAN AMERICAN HISTORY

EL4107 (1 credit), 10th – 12th grade

- Designed to provide students with a broad overview of the African American experience and explore ancient Africa moving through modern times.
- Focus on local history and address the introduction of Africans to the Americas and the African American experience from pre-colonial times to the present.
- Highlight the social, cultural, and political contributions of African Americans to American society.

HEALTH, PHYSICAL EDUCATION AND DRIVERS' EDUCATION

HEALTH & PHYSICAL EDUCATION 6

HP7111

- Develop personal fitness, movement and game skills, and habits for healthy living.
- Develop skills for managing peer pressure and stress.
- Emphasize the principles of training and developing a personal fitness plan.
- Understand basic game skills in individual and team sports.

HEALTH & PHYSICAL EDUCATION 7

HP7120

- Develop personal fitness, movement and game skills, and habits for healthy living.
- Explore positive alternatives to risky behaviors.
- Develop skills for managing peer pressure and stress.
- Emphasize the principles of training and developing a personal fitness plan.
- Understand basic game skills in individual and team sports.

HEALTH & PHYSICAL EDUCATION 8

HP7200

- Develop personal fitness, movement and game skills, and habits for healthy living.
- Study the origins and causes of disease.
- Develop an understanding of the relationship between health choices and short and long-term personal and community health.

FIT FOR LIFE

HP7200F

Fitness based alternative to HP7200.

- Provide students with the knowledge and skills to make good personal physical activity choices.
- Assess their present level of physical fitness, set realistic and appropriate goals, and develop and manage a plan to include physical activity and diet and nutrition.
- Realize the benefits of developing a unique exercise plan.
- Explain the relationship between sleep, exercise, nutrition, self-esteem, academic performance, and avoidance of substance abuse to achieving and maintaining good physical fitness.

HEALTH & PHYSICAL EDUCATION 9

HP7300 (1 credit)

- Emphasize achieving and maintaining personal fitness and applying principals of movement to learning/improving motor skills.
- Develop, implement, and monitor a personal fitness plan for personal, lifelong health.
- Explore health units including awareness and consequences of risky behaviors, disease prevention, family life education, wellness, and community health resources.
- Focus on fitness units like yoga, dance, Pilates, kickboxing, weight lifting, as well as, sports such as basketball, volleyball, soccer, lacrosse, running, and football.

HEALTH & PHYSICAL EDUCATION 10/DRIVER EDUCATION LAB

HP7405 (1 credit)

- Explore topics in physical education, family life, and driver education.
- Achieve and maintain personal fitness via personal fitness plan now and for a lifetime, applying principals of movement to learning new skills.
- Focus on the development of knowledge, attitudes, and skills for safe and efficient driving.
- Meet the CPR graduation requirement.

Behind the wheel instruction - Lab Fee

- Available to all students enrolled in Physical Education 10 who have successfully completed the classroom portion of Driver Education.
- Designed to help students develop the skills necessary for safe driving.
- Required parent/student evening Driver Education program.

HEALTH & PHYSICAL EDUCATION 9 – ONLINE

HP7300ON8 (1 credit) – Online

HEALTH & PHYSICAL EDUCATION 10 - ONLINE

HP7405ON8 (1 credit) –Online

Does NOT include Driver Education instruction.

- Designed for students who are self-motivated and able to complete fitness requirements outside of a PE setting.
- Requires a Fitness Tracker with Heart Rate to monitor fitness activity (or fee for school-provided device).
- Requires access to internet outside of school hours.
- Complete weekly activity logs and written health assignments.
- Meet monthly during Indian Time for check-ins and assessment.

Prerequisite: Completion of student/parent consent form

HEALTH & PHYSICAL EDUCATION 10 – ADAPTED

HP7400A (1 Credit) – Adapted Peer (10th)

EL7700 (1 Credit) – Adapted Peer (11th/12th)

- Pairs regular education students with students with disabilities to complete the physical education components of HP7400.
- 10th grade students need to have completed Driver's Ed prior to the start of the school year or show proof that they will have the course completed by the end of the year in order to enroll. Fitness tracker needed.
- 11th/12th grade students need to have an interest in Physical or Special Education instruction to take the course as an **elective**.
- Learn how to adapt loco motor skills and sports skills to meet the needs of students in order for them to be successful and achieve growth in areas of need.
- Complete various assessments with their peer buddy throughout the year as well as lead and instruct lessons that are adapted for the class.

ADVANCED PE: STRENGTH & TRAINING

HP7650 (1 credit)

- Focus on the Bigger Faster Stronger Program which emphasizes improving agility and conditioning.
- Enhance the performance of the student in his/her individual sport through weightlifting.

ADVANCED PE: STRENGTH & TRAINING 2

HP7610 (1 credit) – 12th grade

- Provides students with the opportunity to participate in lifelong activities such as fitness training and weightlifting.

Teacher recommendation

WORLD LANGUAGES

AMERICAN SIGN LANGUAGE 1, 2, 3, 4

ARABIC 1, 2 & 3

CHINESE 1, 2, 3 & 4

LATIN 1, 2, 3 & 4

See Virtual Virginia ([Online Courses](#))

FRENCH 1

WL5110 (1 credit)

Middle or High School

- Demonstrate novice (basic) proficiency in all communication skills (listening, speaking, reading, and writing).
- Complete activities and projects to support language and culture.
- Study cultures of various French-speaking countries.

FRENCH 2

WL5120 (1 credit)

Middle or High School

- Improve communication skills.
- Demonstrate high novice proficiency in listening, speaking, reading and writing.
- Complete activities and projects to support culture and language development.

Teacher recommendation

FRENCH 3

WL5130 (1 credit)

- Complete intensive, context specific practice in communication.
- Demonstrate levels of proficiency in the intermediate range in communication.
- Expand the study of cultures of various French-speaking countries.
- Complete instruction conducted in French.

Teacher recommendation

FRENCH 4 HONORS

WL5140W (1 credit)

- Improve oral and written expression of accurate, idiomatic French, along with enrichment of vocabulary.
- Examine authentic literature.
- Complete all instruction and participation using the language.

Teacher recommendation

FRENCH 5 HONORS

WL5150W (1 credit)

- Utilize conversation, review of selected points of grammar, reading of literary and non-literary texts, discussion of current events, and videos conducted in French.

Teacher recommendation

SPANISH 1

WL5510 (1 credit)

Middle or High School

- Demonstrate novice (basic) proficiency in all communication skills (listening, speaking, reading, and writing).
- Complete activities and projects designed projects to support culture and language development.
- Study geography and cultures of various Spanish-speaking countries.

SPANISH 2

WL5520 (1 credit)

Middle or High School

- Improve communication skills.
- Demonstrate high novice proficiency in all forms of communication.
- Complete activities and projects to support culture and language development.
- Continue the study of various Spanish-speaking countries.

Teacher recommendation

SPANISH 3

WL5530 (1 credit)

- Participate in intensive, context specific practice in communication with exposure to authentic literature in Spanish.
- Demonstrate levels of communication in the intermediate range
- Expand the study of cultures of Spanish-speaking countries.

Teacher recommendation

SPANISH 4 HONORS

WL5540W (1 credit)

- Demonstrate levels of proficiency approaching the high intermediate range with exposure to more complex structures and literature.
- Instruction in Spanish with student participation in all activities using the language.
- Demonstrate the ability to manipulate and create in the language with increased proficiency in a culturally appropriate manner.

Teacher recommendation

AP SPANISH

WL5570W (1 credit)

AP exam fee

- Increase proficiency in listening, speaking, reading and writing.
- Write essays on literary topics.
- Study Spanish and Latin American history, art and literature after 1492.

Teacher recommendation

English as a Second Language I

WL5710 (1 credit)

- Develop social and academic vocabulary.
- Begin/improve writing for communication and academic purposes.
- Practice oral/aural skills.
- An interdisciplinary course of English Language instruction for ELs who are developing and bridging levels of English proficiency into academic vocabulary and grammar. The content areas of Science, Social Studies, Mathematics and Language Arts will be explored through non-fiction material and presented through blended learning and differentiated interactions. Preparation for WIDA Access testing and grade-level content SOLs will be emphasized. Prerequisite requirement to be determined by WIDA ACCESS for ELLs 2.0 assessment scores.

English as a Second Language 2

WL5720 (1 credit)

- Expand social and academic vocabulary.
- Improve ability to read and write for communication and academic purposes.
- Practice oral/aural skills.

ELECTIVES AND EXPLORATORY– MIDDLE SCHOOL

Courses will be available based on staff availability and student interest.

COURSE	CODE	GRADE			LENGTH	DESCRIPTION
		6	7	8		
ART 6	EL9103	X			Semester	Use the element of art and the principles of design. Investigate a variety of experiences and concepts. Explore two and three dimensional art using a variety of expressive and technical approaches.
BEGINNING BAND 6	MU9230	X			Full Year	With guidance from instructors, students will select and begin instruction on a woodwind, brass or percussion instrument. No experience is necessary. Musical topics are introduced such as reading, music notation, analyzing and evaluating music, as well as composing and improvising simple melodies. The students will present two concerts and perform at VBODA Concert Assessment.
BEGINNING ORCHESTRA	MU9230S	X	X		Full Year	With guidance from instructors, students will select and begin instruction on an orchestral string instrument (violin, viola, cello, or bass). Musical topics are introduced such as reading, music notation, analyzing and evaluating music, as well as composing and improvising simple melodies. The students will present two concerts and perform at VBODA Concert Assessment.
CHORUS 6	MU9269	X			Full Year	Learn the basics of choral singing and progress into singing in parts using a variety of music. Explore a wide variety of musical styles (jazz to classical, pop. One performance per nine weeks. Mandatory rehearsals and performances after school. Fee Required.
MUSIC EXPLORATION 6	EL5124	X			Semester	Students will listen to, perform and create music in various styles, while developing the music literacy necessary for participation in an ensemble should they choose to participate in band, chorus or orchestra in the following school year. Students will use a variety of music technology tools to create their own music.
COMPUTER TECHNOLOGY 6	EL60121	X			Semester	Provide an overview of computer applications as a system. Use a variety of applications including word processing, spreadsheet, organization, presentation, web design, digital photography, and photo editing. Beginner and mid-level functions are incorporated into assignments. Conduct research using the Internet as a tool and completing a beginner level web quest. Review basic keyboarding with 1-2 typing assessments.
WORLD CULTURES EXPLORATORY	EL5700	X			Semester	Study of world languages and culture. Introduced to language and culture through simple conversations, dialogues, songs, and games. Focus on the cultures of countries around the world. Learn the basic elements of language. Provides a brief overview of language and cultural traditions.
AGRISCIENCE 7	EL8003		X		Semester	Introduce students to basic plant and animal science topics. Explore conservation of natural resources and forestry. Gain a basic knowledge of woodworking skills including safety, tool identification. Develop leadership skills through the study of the FFA organization, and participate in the PMS FFA chapter.
ART 7	EL9106		X		Semester	Incorporates design elements in all projects. Focus on drawing and realistic representation. Study of Art History – American.
CHORUS 7	MU9270		X		Full Year	Focus on singing music in three or more parts. Study multiple genres of music. Participate in daily music theory exercises designed to understand beginning to intermediate level choral arrangements. Perform basic choreography for one or two songs. Perform in three concerts and one District Choral Event. Fee Required.
CONCERT BAND 7	MU9231		X		Full Year	Students will learn in a large instrumental ensemble setting appropriate to their skill level, while expanding their skills and knowledge. Instruction offers continued focus on the refinement of tone quality, technique, aural skills and music literacy. Students will perform varied literature, create their own music, and study music from various genres including classical, jazz, and commercial music from film and video games.
INTERMEDIATE CONCERT ORCHESTRA	MU9231S		X	X	Full Year	Students will learn in a large instrumental ensemble setting appropriate to their skill level, while expanding their skills and knowledge. Continued focus on the refinement of tone quality, technique, aural skills and music literacy. Perform varied literature, create their own music, and study music from various genres including classical, jazz, and commercial music from film and video games.
INTRO TO DIGITAL DESIGN	EL6160		X		Semester	Explore a variety of programs while creating publications and multimedia presentations which will introduce the principles for layout and design. Explore entry level technical skills using a variety of technology, to include digital and video cameras. Create a web based portfolio of publications, animations, and video products created throughout the semester.
STEM EXPLORATORY: Project Lead the Way	EL8464		X		Semester	Acquire a foundation through Design and Modeling. Discover the design process and develop an understanding of the influence of creativity and innovation. Work with software applications to design and fabricate 3-D replicas. Discover an understanding to solve medical mysteries and learn how the systems of the human body work together.
MUSIC CREATION STUDIO 7	EL5123		X		Semester	Create, compose and explore music sequencing through music production software. Emphasis on layering tracks, producing and designing original work
INTRO TO CODING			X		Semester	Use graphic design software to create original characters for games; visual and text (Python) programming languages to create short programs, drawings, and control Finch robots; and problem-solving and critical thinking techniques to successfully create a functioning program.

COURSE	CODE	6	7	8	LENGTH	DESCRIPTION
EXPLORING FRENCH	EL5100		X	X	Semester	Acquire skills in comprehending, speaking, reading, and writing French. Acquire knowledge of the vocabulary and the structure of the French language while participating in activities related to the daily life of the Francophone people.
EXPLORING SPANISH	EL5500		X	X	Semester	Acquire skills in comprehending, speaking, reading, and writing Spanish. Learn basic vocabulary needed for everyday situations. Explore the geography, customs, and traditions of Spain and Hispanic America.
FRENCH 1	WL5110		X	X	Full Year	1 high school credit. See course description in World Languages. 7th graders must receive a recommendation from English 6 teacher.
SPANISH 1	WL5510		X	X	Full Year	1 high school credit. See course description in World Languages. 7th graders must receive a recommendation from English 6 teacher.
BAND 8	MU9233			X	Full Year	Students will learn in a large instrumental ensemble setting, perform advanced middle school band literature, create their own music, participate in self-directed student led projects, and student music from various genres including classical, jazz and commercial music from film and video games. Students are eligible for participation in All-District Band, and other regional music programs.
BAND 8 ADVANCED	MU9233A			X	Full Year	Students will learn in a large instrumental ensemble setting, perform advanced middle school band literature, create their own music, participate in self-directed student led projects, and student music from various genres including classical, jazz and commercial music from film and video games. Students will have additional contract requirements. Students are encouraged to participate in the PHS Marching Band and Middle School Symphony Orchestra. <i>Teacher recommendation</i>
ADVANCED CONCERT ORCHESTRA				X	Full Year	Most advanced string offering composed of students on all major string instruments. Instruction concentrates on advanced technical and expressive skills in an ensemble-focused setting. Students will participate in Virginia Band and Orchestra Directors Association events including Concert Assessment, Regional Orchestra, and Solo & Ensemble Assessment. <i>Teacher recommendation</i>
CHORUS 8	MU9271			X	Full Year	Focus on music and music theory. Perform basic choreography. Audition for District III Chorus. Perform in three concerts and one District Choral Event.
ADVANCED CHORUS 8	MU9271A			X	Full Year	Explore more complex concepts in music theory and sight-singing. Build on the foundation established in seventh grade chorus. Combine with 8 th grade Chorus for concerts and district assessments. <i>Teacher recommendation</i>
ART 8	AR9115			X	Full Year	Incorporates design elements in all projects. Focus on drawing and realistic representation. Study of Art History – American.
ART 1	AR9120			X	Full Year	1 high school credit. See course description in Fine and Performing Arts. <i>Teacher recommendation</i> by Art 7 teacher or portfolio submission.
DIGITAL DESIGN FOUNDATIONS				X	Full Year	Project-based course to expand upon basic graphic design skills learned in Intro to Digital Design, as well as adding more skills in new programs. Projects will be a mixture of commercial graphics applications and fine arts applications. Students will approach real-world problems using the design thinking process. Career opportunities in the creative fields will be explored.
FAMILY AND CONSUMER SCIENCE	EL8245			X	Full Year	Experience studies of nutrition and wellness, food preparation, relationships, personal environments, textiles, sewing and construction skills, consumer resources, child development and care, and leadership service in action.
FOUNDATIONS OF AGRISCIENCE AND TECHNOLOGY	EL8004			X	Full Year	Apply scientific principles to the field of agriculture, including plants, animals, food science, agriculture mechanics (electrical and wood working) and ecology/conservation through laboratory activities. Study principles of leadership and opportunities in FFA along with Supervised Agricultural Experience opportunities.
LEADERSHIP DEVELOPMENT	EL			X	Full Year	Develop individual / group leadership skills. Explore leadership principles, parliamentary law, communication, public relations skills, and techniques for organizing/conducting group meetings and activities.
INTRO TO GAME DESIGN AND ROBOTICS	EL8400			X	Full Year	In this project-based course, students will create original games through the application of graphic design, animation, audio, and coding skills. They will work in teams in an Agile Project Management environment to develop problem-solving, critical thinking, and effective communication skills while creating games and coding robots. Students will code virtual and physical robots applying higher-order thinking to program robots' movements and actions based on data received from input devices such as gyroscope and distance sensors. Career opportunities across multiple industries will be explored.
FRENCH 2	WL5120			X	Full Year	1 high school credit. See course description in World Languages.
SPANISH 2	WL5520			X	Full Year	1 high school credit. See course description in World Languages.

FINE AND PERFORMING ARTS

ART

ART 1

AR9120 (1 credit)

Middle and High School

Lab fee

- Introduction to the Basic Fundamentals of Art Production and Appreciation.
- Create good design using Principles and Elements of Art and Basic Design.
- Development of drawing and painting skills, as well as creation of 3D designs.
- Appreciation of Art.

Teacher recommendation by Art 7 Teacher or Portfolio Submission (Middle School Only)

ART 2

AR9130 (1 credit)

Lab fee

- Use of the Principles of Design and the Elements of Art with a variety of media.
- Creation of media involving drawing, watercolor, acrylic paint, clay, and wire.
- Study of art history.

ART 3 (2D / 3D DESIGN)

AR9140 (1 credit)

Lab fee

- Develop skills in drawing, painting, printmaking, mixed media, collage, and digital applications.
- Emphasis on visual problem solving and exploration of how artists use images to document and comment on history and visual culture.
- Design 3D media to include additive, subtractive, and assemblage sculpture.
- Create artwork in the areas of ceramics, jewelry, glasswork, and textiles.
- Broaden visual art and descriptive vocabularies as it pertains to 3D design.

ART 4

AR9145 (1 credit)

Lab fee

- Focus on visual problem solving through creation of Art based on large concepts.
- Creation of using varied media to include drawing, painting, printmaking, mixed media, sculpture, and digital Art.
- Exploration of individual artist's methods for creating artwork and demonstrate an understanding of their own artwork.

ART 4 HONORS

AR9145W (1 credit)

Lab fee

- Research for understanding and application in visual arts creation.
- Development of high quality art work which exhibits higher levels of critical thinking and technical skills.
- Review art exhibitions and submit work for exhibition and competition.

Teacher recommendation

AP ART STUDIO – 2D

AR9148W (1 credit)

AP Exam and lab fee

- Develop portfolios for evaluation at the end of the school year.
- Designed for students interested in completing the AP Drawing Portfolio or the AP 2-D Design Portfolio.
- Emphasize the production of a volume of quality pieces of artwork.

Teacher recommendation

AP DRAWING STUDIO ART

AR9150W (1 credit)

AP Exam and lab fee

- In depth study of conceptual and technical drawing issues including line quality, light and shade, rendering of form, composition, surface manipulation, the illusion of depth and mark-making through a variety of means, such as painting, printmaking or mixed media.
- Course will adhere to the College Board requirements for AP Drawing Studio Art. Students will submit a portfolio of 24 works to the College Board.

Teacher recommendation

AP 3D DESIGN STUDIO ART

AR9149W (1 credit)

AP Exam and lab fee

- Demonstrate mastery through any three-dimensional approach, such as figurative or nonfigurative sculpture, architectural models, metal work, ceramics, glass work, installation, assemblage and 3-D fabric/fiber arts.
- Develop technical skills and familiarize yourself with the functions of visual elements as you create an individual portfolio of work for evaluation at the end of the course.
- Course will adhere to the College Board requirements for 3D Design Studio Art. For the final exam students will submit a portfolio of 24 works to the College Board.

Teacher recommendation

CERAMICS 1

AR9175 (1 credit)

Lab Fee

- Techniques emphasized: hand-building, wheel throwing, glazing and firing.
- Explore the role of ceramics in art history and various cultures.
- Understand the aesthetics and criticism relating to ceramics.

CERAMICS 2

AR9176 (1 credit)

Lab Fee

- Explore additional ceramic techniques.
- Expose to studio experiences and practice, art history & cultural connections, art vocabulary, aesthetics and the process of art criticism through analysis, interpretation and judgment.
- Self-directed planning and research.
- Emphasis on skill refinement, material exploration, conceptual realization, self-expression, and quality craftsmanship.

CERAMICS 3

AR9177 (1 credit)

Lab Fee

- Build Ceramics Portfolio in preparation for Studio Study.
- Continue to build on skills developed in Ceramics 1 and 2.
- Move into Sculpture and Combination Work.

ADVANCED 3D ART

AR05158 (1 credit)

- Build upon a background in ceramic three-dimensional building by expanding knowledge to other areas of working with additional sculptural media.

Prerequisite: Ceramics 1-3, teacher recommendation

SENIOR ART

AR9197 (1 credit)

Lab fee

- Study of Principles, Elements of Design.
- Create artwork using collage, drawing, painting, and clay.
- Explore elements of digital design.
- For students with no Art class experience.

DIGITAL MEDIA ART DESIGN

AR01569 (1 credit)

Lab Fee

- An introductory course designed for the student to develop skills within a variety of software applications and tools associated with digital art, content creation, and graphic communications.
- The student will explore the elements of art and the principles of design as they relate to the production of creative and practical digital media.
- Students will utilize photography, Virtual Reality art creation programs and digital image manipulations with a variety of software and digital tools.

PHOTOGRAPHY 1

AR9190 (1 credit)

Lab fee, digital camera

- Exploration of origins of photography, photograms, pinhole cameras, and photographic composition.
- Using and manipulating 35mm SLR Film and Digital cameras.
- Using photography to create fine art.
- Processing and Printing film and digital photographs.

PHOTOGRAPHY 2

AR9191 (1 credit)

Lab fee, digital camera

- Research for the understanding and application of photographic art creation.
- Development of high quality photographic Art to exhibit higher level critical thinking skills.
- Submission of photographic work for exhibition and competition.

Teacher recommendation

PHOTOGRAPHY 3

AR9192 (1 credit)

- Designed for students who have successfully completed Photography 1 and 2.
- Focus on investigating current and emerging trends in photography, digital image manipulations, and personal portfolio development in preparation for AP Studio Art, and college portfolio applications.

Teacher recommendation

INDEPENDENT TOPICS IN PORTFOLIO DEVELOPMENT

AR9147 (1 credit)

Lab fee

- Designed for the advanced Art student who exhibits a high aptitude for Art and plans to seek a career in the visual arts.
- Utilize the knowledge gained in the introductory, intermediate and advanced art courses to create a portfolio of art based on a chosen theme.
- Develop a contract with the teacher outlining their course of study.
- Work independently.
- Develop a quality portfolio suitable for college entrance requirements.

Teacher recommendation

ADAPTED ART

AR9130A (1 credit), 10th – 12th grade

- Pairs regular education students with students with disabilities to complete an introductory art program in one-to-one and small group settings.
- Complete various projects with their peer buddy throughout the year as well as lead and instruct lessons adapted for the class.

Teacher recommendation; Art 1 or Ceramics 1

MUSIC (INSTRUMENTAL, VOCAL, THEORY, AND APPRECIATION)

(Fees associated with most courses)

HONORS CREDIT Available in year three or four of a sequential track of high school performance-based music courses. Students will have contractual requirements to earn weighted credit. *Audition required*

INSTRUMENTAL MUSIC

SYMPHONIC BAND

MU9232S (1 credit)

- Emphasize the development of intermediate level technical and ensemble skills.
- Develop as individual musicians and members of the ensemble.
- Meet both the school day and after school participation requirements.
- Purchase accessories (reeds, Mutes, oil) necessary for participation.

WIND SYMPHONY

MU9234S (1 credit)

- Participate in Instrumental enhancement and audition for All-District Band.
- Meet both the school day and after school participation requirements.
- Purchase accessories (reeds, mutes, oil) necessary for participation.

Audition required

JAZZ BAND

MU9250 (1 credit)

- Study of jazz and big band idioms.
- Perform all major jazz styles, and display mastery of basic improvisational skills.
- Meet both the school day and after school participation requirements.
- Purchase accessories (reeds, mutes, oil) necessary for participation.

Audition required

PERCUSSION ENSEMBLE 1

MU9296 (1 credit)

- Intermediate study of the percussive arts.
- Perform concert band parts and concert percussion music in this class.
- Encouraged to supplement their experience by participating in marching band and indoor percussion.
- Purchase and/or own sticks, mallets and other accessories necessary for participation in this class.

Audition required

PERCUSSION ENSEMBLE 2

MU9297 (1 credit)

- Advanced study of the percussive arts.
- Perform concert band parts and concert percussion music suitable in this class.
- Encouraged to supplement their experience by participating in marching band and indoor percussion.
- Purchase and/or own sticks, mallets and other accessories necessary for participation in this class.

Audition required

CHAMBER ORCHESTRA

MU9239 (1 credit)

- Designed for students that have at least two years of string orchestra instruction or equivalent playing experience on violin, viola, cello, or bass.
- Perform varied literature representing various styles, and periods in music history.
- Performance commitments outside of the school day.

Prerequisite: Completion of Level 3 of American String Teachers Association Curriculum or Director Recommendation

VOCAL MUSIC

CHORUS 1 "One Voice"

MU9260 (1 credit)

- Primary chorus for 9th graders or other students that have had little or no music or choral experience.
- This choir is a stand-still performance-oriented group.
- Learn music terminology, theory, sight-reading, posture, rhythmic counting, fundamentals of correct singing, proper breathing, good tonal production and vocal techniques.
- Students are required to attend and fully participate in all rehearsals and performances throughout the year.

CHORUS 2 "Radiance"

MU9285 (1 credit)

- A performance chamber choir.
- Develop and refine sight-singing skills, music theory knowledge and develop vocal tone and techniques.
- Learn to think like musicians by exploring the relationship of music theory to music performance.
- Attend and fully participate in all rehearsals performances, both on and off campus.

CHORUS 3 "Resonance"

MU9289 (1 credit)

- Read music, match pitch, and project their voice while dancing.
- Combines choreography with music to produce a competition show.
- Study music from a variety of musical styles and genres.
- Graded and mandatory after-school rehearsals each week as well as other mandatory weekend rehearsals and competitions.

Audition required

CHORUS 3: "Radiance" Women's Show Choir

MU9289G (1 credit)

- Read music, match pitch, and project their voice while dancing.
- Combines choreography with music to produce a competition show.
- Study music from a variety of musical styles and genres.
- Graded and mandatory after-school rehearsals each week as well as other mandatory weekend rehearsals and competitions.
- Review fundamentals of music, improve vocal quality, and sight singing ability.
- Participate in musical activities and performances.

Audition required

MUSIC THEORY AND APPRECIATION

MUSIC THEORY 1

MU9222 (1 credit)

- Understand the mechanics of music and reach a higher level as a musician.
- Study music terminology, scales, notes, rhythms, chord structure, transposition, and many other elements of theoretical music structure.
- Learn to transpose melodies in various keys, and compose an original song.

MUSIC THEORY 2

MU9225 (1 credit)

- Study advanced chord structures and music analysis, as well as all major component parts of theoretical structure.

Teacher recommendation

AP MUSIC THEORY

MU9226W (1 credit)

AP exam fee

- Develop concepts from where Music Theory 1 left off.
- AP Testing will be required.

Teacher recommendation

MUSIC APPRECIATION

MU9222

(1 credit)

- Non-performance class includes listening, discussion, and presentations.
- Provide students, who may have an interest and passion for music but limited background, with the opportunity to increase their musical awareness through experiences to become informed consumers of all styles and genres of American Music

THEATRE ARTS

THEATRE 1: INTRODUCTION to THEATRE ARTS

TA1410 (1 credit)

- Cover basics of acting and directing, Greek theatre history, introduction to playwriting, and basics of all aspects of technical theatre.
- Performance and technical theatre assistance will be required of each student.

THEATRE 2, 3, 4: ADVANCED THEATRE ARTS

TA1423 (1 credit)

- Deepen knowledge and experience of acting and directing.
- Research and explore different eras of theatre history such as Renaissance Theatre, Naturalism, and Modernism.
- Refine their knowledge of and experience in playwriting.
- Complete a practicum in technical theatre.

CAREER AND TECHNICAL EDUCATION

AGRICULTURE / HORTICULTURE / FOOD AND NATURAL RESOURCES

ANIMAL SYSTEMS

INTRODUCTION TO ANIMAL SYSTEMS

AG8008 (1 credit), 9th - 10th grade

- Develop competencies in each of the major areas of the Animal Systems career pathway including animal nutrition, reproduction, breeding, care, and management.
- Learn agricultural mechanics applicable to animal systems.
- Explore principles of leadership and opportunities within student organizations along with Supervised Agricultural Experience opportunities.
- Testing for industry certification in BQA and FAMACHA.

EQUINE MANAGEMENT

AG8080 (1 credit)

- Learn how to care for and manage horses.
- Instruction in equine health, nutrition, management, reproduction, training, evaluation, and showmanship Instruction in the tools, equipment, and facilities for equine enterprises.
- Business management topics include the economics of boarding, training, and merchandising horses.
- Encourage leadership development activities and participation in FFA activities such as competitive horse judging team.

SMALL ANIMAL CARE

AG8083 (1 credit)

- Care for and manage small animals, focusing on instructional areas in animal health, nutrition, management, reproduction, and evaluation.
- Instruction in the tools, equipment, and facilities for small animal care, and provides activities to foster leadership development.
- FFA and SAE activities are encouraged.

VETERINARY SCIENCE 1

AG8088 (1 credit), 11th grade

- Prepares students for post-secondary education and/or careers in veterinary medicine or related fields. Students develop their skills in anatomy, nutrition, medical terminology, sanitation, clinical exams, and handling animals.
- Live animal handling may occur.
- Course content also includes facility maintenance, and office functions, as well as safety practice.

Prerequisite: Small Animal Care recommended

VETERINARY SCIENCE 2

AG8089 (1 credit), 12th grade

- Expand knowledge of animal science and the care of animals, including animal structure and function, microbes and disease prevention, parasitology, and genetics and breeding.
- Develop more advanced skills and techniques for assisting the veterinarian/technician in the following areas: performing first aid and surgery, applying aseptic techniques, performing technical functions, administering medication, handling death and dying, working with wildlife, and performing office functions.
- On-the-job clinical instruction coordinated by the instructor may be included in veterinary offices or animal clinics.

Teacher recommendation

MECHANICS

INTRODUCTION TO POWER, STRUCTURAL, AND TECHNICAL SYSTEMS

AG8016 (1 credit), 9th - 12th grade

- Prepares students for careers in agricultural mechanics, fabrication, and construction.
- Hands-on experience with the operation, maintenance, and repair of agricultural equipment.
- Utilize tools and equipment for agricultural structures, electricity, welding, and carpentry.

SMALL ENGINE REPAIR

AG8082 (1 credit), 10th - 12th grade

- Intensive study of the operation, maintenance, and repair of small gasoline engines.
- Instructional topics include principles of operation of internal combustion engines, repair and service procedures, and disassembly, overhaul, and reassembly.
- Operate two-cycle and four-cycle engines commonly found on lawn mowers, garden tractors, snow blowers, rotary tillers, chainsaws, and other equipment.
- Incorporates classroom and laboratory activities to emphasize leadership through opportunities in FFA and supervised agricultural experiences (SAEs).

Prerequisite: Introduction to Power, Structural, and Technical Systems or Teacher recommendation

AGRICULTURE STRUCTURAL SYSTEMS

AG8017 (1 credit), 10th - 11th grade

Lab fee, OSHA 10-hour card fee and SkillsUSA student organization fee

- Emphasis on lab safety, jobsite safety.
- Students will be introduced to skills in the four core areas of residential construction: carpentry, electricity, plumbing and masonry.
- Students will be introduced to and practice building build residential structures using a variety of materials and tools in lab setting.
- Students will be introduced to the process of estimating the cost of materials and job cost.

All students will obtain the required OSHA 10 safety credential.

AGRICULTURE FABRICATION AND EMERGING TECHNOLOGIES

AG8019 (1 credit), 10th - 12th grade

- Introduction to the science and art of welding processes, including types of equipment, and assembly and set-up of various welding units and the different welding procedures such as fusion, non-fusion, and oxy-acetylene cutting.
- Emphasize the arc welding operations of DCEP and DCEN power sources, heats and electrodes for use in joining various metal alloys by the arc welding process.
- Emphasize the safe and proper use of tools and equipment when welding.
- Implement the practical application of arc welding and oxy-acetylene processes leading the students to an opportunity to receive an AWS Structural Plate Steel Weld Certification.

Prerequisite: Introduction to Power, Structural, and Technical Systems or Teacher recommendation

AGRICULTURE POWER SYSTEMS ADVANCED

AG8020 (1 credit), 11th - 12th grade

- Hands-on experience in metal fabrication, including cutting, welding, and cold metalworking processes, for agriculture and industrial applications.
- Investigate emerging technologies used with the fids of agriculture and industry.
- Incorporates leadership and career skills.

Prerequisite: Welding 1 or Teacher recommendation

FORESTRY MANAGEMENT Dual Enrollment

DE8042W (1 credit, college credit), 11th - 12th grade

- Instruction in the management of the forest as a resource and as a business.
- Develop knowledge in areas like tree physiology, forest ecology, silviculture, and the management and marketing of forest products.
- Strong emphasis is placed on developing career skills for the forestry industry.

Prerequisite: Intro to Power Systems strongly encouraged

PLANT SYSTEMS

INTRODUCTION TO PLANT SYSTEMS

AG8007 (1 credit), 9th or 10th grade

- Develop competencies in each of the major areas of the Plant Systems career pathway, including applied botany, plant propagation, and plant care and selection.
- Develop knowledge in plants science areas like tree physiology, forest ecology, silviculture, and the management and marketing of forest products.
- Learn agricultural mechanics applicable to plant systems such as woodworking, carpentry, plumbing and metal working.

HORTICULTURE 1: Horticultural Sciences

AG8034 (1 credit)

- Develop the necessary knowledge, skills, habits, and attitudes for advancement in areas such as floriculture, landscape design, greenhouse operation, nursery plant production, and turf management.
- Instruction in using soil and other plant-growing media, and in identifying, propagating, and growing horticultural plants in the greenhouse and land laboratory.
- Hands-on experience raising poinsettias, bedding plants, hanging baskets, etc. will be part of the curriculum.

Offered Alternating Years

HORTICULTURE 2: Greenhouse Plant Production and Management

AG8035 (1 credit), 11th or 12th grade

- Builds on the skills learned in Horticulture Science focusing on learning the operating procedures for a greenhouse.
- Units of instruction include developing production facilities, science application in plant production and plant identification, and landscaping.

HORTICULTURE 3: Landscaping

AG8036 (1 credit), 11th - 12th grade

- Develop the knowledge, skills, habits, and attitudes for entry-level employment and advancement in landscape design, landscape construction, and landscape maintenance.
- Sketching and drawing, analyzing landscape sites, designing for function and aesthetics, identifying and selecting landscape plants, plant installation, fertilizing, mulching, pruning, and controlling pests.

AGRICULTURE BUSINESS FUNDAMENTALS CO-OP

AG8022 (1 credit), 11th - 12th grade

- Enrolled in agriculture/horticulture courses; or completer in CTE program.
- Cooperative training station that provides hands-on experience that will aid in the development of skills and attitudes needed for successful employment in agriculture business.
- Students must have transportation.

BUSINESS, MARKETING, ECONOMICS, AND INFORMATION TECHNOLOGY

FBLA, co-curricular student organization, offers opportunities in leadership, community, and competitive events

BUSINESS

PRINCIPLES OF BUSINESS AND MARKETING

BT6115 (1 credit), 9th grade+

- Discover the roles of business and marketing in the free enterprise system and the global economy.
- Investigate basic financial concepts of banking, insurance, credit, inheritance, taxation, and investments to provide a strong background as students prepare to make sound decisions as consumers, wage earners, and citizens.
- Understand the real-world impact of technology, effective communication, and interpersonal skills throughout the course. Supports career development skills and explores career options.
- Utilize all Microsoft Office 2019 software application.

ACCOUNTING

BT6320 (1 credit), 10th - 12th grade

- Learn basic accounting principles, concepts and practices as they relate to personal and business financial records.
- Understand the accounting cycle for a service business and merchandising business.
- Prepare manual and computerized simulations through the use of Microsoft Word and Excel.

BUSINESS MANAGEMENT

BT6135 (1 credit) - 10th - 12th grade

- Learn basic principles, concepts and practices of business management.
- Explore leadership styles and skills, business ownership, economics, international business, ethics, and human relation issues.
- Participate in many hands-on real world activities.
- Utilize all Microsoft Office 2019 software applications.

INFORMATION TECHNOLOGY

COMPUTER INFORMATION SYSTEMS

BT6612 (1 credit), 9th – 12th grade

- Develop and refine skills in Microsoft Office 2019 through project-based learning.
- Apply problem-solving skills to real-life situations through word processing, spreadsheets, databases, multimedia presentations, and integrated software activities.
- Explore computer concepts, operating systems, networks, telecommunications, and emerging technologies.
- Prepare students for the Microsoft Office Specialist: Associate (MOS) certification.

Associate Certification offered (4)

ADVANCED COMPUTER INFORMATION SYSTEMS

BT6613 (1 credit), 10th – 12th grade

- Apply problem-solving skills to real-life situations through advanced integrated software applications, including printed, electronic, and Web publications.
- Explore advanced computer maintenance activities, Website development, programming, networking, emerging technology, and employability skills.
- Prepare for Microsoft Office Specialist: Expert (MOS) certification.

Expert Certification offered

INFORMATION MANAGEMENT SYSTEMS/PROGRAMMING

BT6640 (1 credit)

- Coding throughout the course.
- Write the software that enables computers to function.
- Design and develop interactive multimedia applications and game programs.
- Learn and use algorithms.
- Execute programming procedures.
- Opportunity to master the fundamentals of programming.
- Create advanced web pages.

ECONOMICS

ECONOMICS AND PERSONAL FINANCE

BT6120 (1 credit)

- Learn how to make informed decisions related to career exploration, budgeting, banking, credit, insurance, spending, taxes, saving, investing, buying/leasing a vehicle, managing debt, living independently, retirement, and inheritance.
- Development of financial literacy skills and an understanding of economic principles will provide the basis for responsible citizenship and career success.

AP ECONOMICS

BT6162WY (1 credit)

AP exam fee

- Examine a broad picture of economics in theory and practices through AP Microeconomics and AP Macro comics.
- Prepare for the AP Macroeconomics and AP Microeconomics test.

Prerequisite: Economics and Personal Finance

GENERAL OFFERINGS

EDUCATION FOR EMPLOYMENT – CO-OP

CE9080 (1 credit)

- Investigate various occupational fields.
- Practice solving real-world problems.
- Develop employability skills through on-the-job paid work experience.

MEDICAL SYSTEMS ADMINISTRATION

BT6730 (1 credit), 10th-12th grade

- Learn to manage office activities, enhance communication skills, identify legal and ethical issues in health care practices, manage financial functions, and enhance employability skills.
- Learn how to use medical terminology and apply administrative procedures necessary to be productive employees in a healthcare environment.
- Learn to work in a healthcare environment including insurance and billing, professional referrals, and other medical administration.

Industry Certifications offered (2)

CARPENTRY AND ELECTRICITY

INTRODUCTION TO CONSTRUCTION TECHNOLOGY

CT8600 (1 credit)

Lab Fee

- Design and build scale or full-size structures and work with projects that help them understand the jobs of architects, carpenters, electricians, plumbers, surveyors, contractors, masons, design engineers, and a variety of other construction careers.
- Explore aspects of the residential construction industry.
- Introduced to safe operation of hand tools and hand held power tools, blueprint reading, current building codes and explained how to apply them on the job site.
- Learn the basic language of technical design while they design, sketch and make technical drawings, illustrations, models or prototypes of real design problems.
- Develop spatial ability as they apply mathematical concepts of visual representations.
- Prepares students for Carpentry 1, Electricity.

CARPENTRY 1

CT8601 (1 credit), 11th grade

- Expand knowledge of residential construction, blueprint reading, building codes, application on the jobsite, carpentry theory and mathematical problems related to carpentry.
- Emphasis on lab safety, jobsite safety.
- Estimate the cost of materials and job cost.
- Develop and practice building methods in lab setting.

Obtain the required OSHA 10 safety credential

CARPENTRY 2

CT8602DB (2 credits), 12th grade

- Focus on manual drafting, reading blueprints, estimating the cost of materials, with projects including blue prints and job costs estimation.
- Opportunity to secure employment with Construction Contractor during second semester.

Eligible to take (NCCER CORE) national certification testing.

ELECTRICITY 1

CT8533 (1 credit), 10th - 11th grade

Lab Fee \$25.00: includes SkillsUSA membership, O.S.H.A. 10 Training Course

- Introduction to residential electrical systems; current electrical codes and learn to navigate the National Electrical Code Book; and blueprint reading and schematic transfers.
- Develop and practice wiring method skills in lab setting.
- Emphasize safety electrical safety, lab safety, jobsite safety. All students will obtain the required OSHA 10 safety credential.
- Develop a resume, and introduced to interview skills
- Upon completion of course, students may take (ICC CODE Certification) national certification testing.

Upon completion of course, rising senior students that plan to take Electricity 2 have opportunity and are encouraged to secure employment with an Electrical Contractor during the summer that will continue their senior year where they will work a minimum of 16 hours a week.

ELECTRICITY 2

CT8534- COOP (2 credits), 11th -12th grade

Lab fee \$25.00 Includes / SkillsUSA membership

- Expand on knowledge of residential electrical systems; the National Electrical Code Book; blueprint reading and schematic transfers.
- Introduction to commercial electrical systems; lighting, communication and power systems and work with conduit and raceways, panel boards, switchboards, grounding systems and generators; to electrical theory and mathematical problems related to electricity.
- Students will practice wiring method skills in job setting.
- Emphasis on safety electrical safety, lab safety, jobsite safety.
- Students will be registered with the state of Virginia as a Youth Registered Apprentice (YRA).

Prerequisites: Electricity 1; Driver's License; Teacher recommendation. Students enrolled in Electricity 2 must secure employment with an Electrical Contractor where they will work a minimum of 16 hours a week during senior year.

COSMETOLOGY

NAIL TECHNOLOGY

CO8692 (1 credit)

Lab fees and State Board fee

- Learn in a lab setting to manicure, pedicure and apply and maintain artificial nails, and apply concepts associated with bacteriology, sanitation, nail disorders, anatomy, physiology and safety.

COSMETOLOGY 1

CO8745 (3 credits), 10th -12th grade

Offered in alternate years

Kit Fee

- Study of the hair, skin, and nails and their related care
- Grounded in theory as they prepare to practice procedures in a clinical lab setting or classroom, using manikins for manipulative skill practice.
- Emphasizes personal safety, professionalism, and sanitation and disinfection of equipment and facilities.
- Develop skills in shampooing and conditioning hair, as well as styling and cutting hair.
- Introduced to chemical texture services and develop skills in manicure and pedicure.
- *Curriculum materials contain anatomical pictures, both male and female, of reproductive parts of the body.*

COSMETOLOGY 2

CO8746 (3 credits), 11th-12th grade

Offered in alternate years

Lab fees and State Board fee

- Build on theoretical foundation of general sciences and practices in cosmetology to increase proficiency in hair cutting and styling on live models, with attention to professionalism, client consultation, safety, and infection control.
- Trained in safe chemical processes related to permanent waves, relaxers, soft-curl permanent waves, and coloring hair.
- Develop artistic skills with wigs and hair additions. Care for skin, hands, and feet, developing experience in providing facials, manicures, pedicures, and nail enhancements.
- Business management unit for managing the salon.
- Prepare for the Virginia Board of Cosmetology licensing exam.
- Develop the opportunity to work in a salon for the second semester
- *Curriculum materials may contain anatomical pictures, both male and female, of reproductive parts of the body.*

CULINARY ARTS / HOSPITALITY AND TOURISM

INTRODUCTION TO HOSPITALITY, TOURISM, AND RECREATION

FC8259 (1 credit)

- Explore the industries of lodging, food and beverage, travel and tourism, and recreation and fitness.
- Develop professional skills and use emerging technologies to prepare for employment in this global industry, rich in diverse career opportunities.

CULINARY ARTS 1

CA8250 (1 credit), 9th and 10th grade

Lab fee

- Introduction to the knowledge and skills needed for employment in the food services industry. A variety of work experiences assists students in identifying their interests and abilities and defining their career objectives.
- Develop desirable personal qualities and job skills for employment.
- Textbooks, tests, and food preparation labs are an integral part of this program.

CULINARY ARTS 2CA8275 (1 credit), 10th - 11th grade**Lab fee**

- Fundamental food preparation and service skills are taught for entry level employment.
- Textbooks, tests and quantity food preparation techniques are an integral part of this occupational program.
- Operate a restaurant during their lunch period for part of the year.
- Students should select this course expecting to take two years of the program.
- ProStart Certification given at the end of this course

CULINARY ARTS 3

CA8276 (1 credit)

Lab fee

- Obtain advanced instruction in food preparation methods, skills, and techniques, as well as nutrition, and menu planning and costing.
- Improve job skills through restaurant operation for part of the school year.
- ServSafe Food Protection Manager Certification is given at the beginning of this course.

ENGINEERING**ENGINEERING EXPLORATIONS I**EG8450 (1 credit), 9th - 12th grade

- Examine technology and engineering fundamentals in relation to solving real-world problems.
- Examine engineering specialty fields and their related careers.
- Practice engineering fundamentals with project-based activities, using mathematical and scientific concepts and complete the engineering challenges.
- Apply the engineering design process through participation in hands-on engineering projects.
- Communicate project-related information through team-based presentations, proposals, and technical reports.

*Prerequisite or Co-requisite: Geometry***ENGINEERING STUDIES**

EG8491 (1 credit)

- Designed for students who intend to pursue engineering studies in college.
- Emphasizes integration of mathematics, science, and English concepts and skills into engineering problems in a curriculum demanding rigorous study habits.
- Encourages inquisitiveness through brainstorming and prototyping.
- Practice engineering skills and communication of technical information while applying the engineering design process to complete engineering projects.
- Incorporates national engineering competitions.

*Prerequisite: Engineering Explorations 1***FAMILY AND CONSUMER SCIENCES / EDUCATION AND TRAINING****EARLY CHILDHOOD EDUCATION 1**FC8285 (1 credit), 9th - 12th grade

FCCLA and Educators Rising membership fee

- Designed to provide occupational and professional training for students interested in child care or careers in Early Childhood Education.
- Develop an understanding of children's behavior and child development.
- Students develop and teach creative lesson plans as well as explore current trends in education.

EARLY CHILDHOOD EDUCATION 2 - CHILD WATCHFC8286 (1 credit), 10th-12th grade

FCCLA and Educators Rising fee

- Emphasis on occupational skills needed for working in the child care/early childhood education field.
- Extensive preparation and implementation of creative activities for young children.
- Students have the opportunity to earn an industry credential at the end of the course.

TEACHERS FOR TOMORROW 1FC9062 (1 credit), 11th-12th grade

- Virginia's initiative for recruiting high school students into the teaching profession.
- Examine the history of education and the functions of schools and school divisions as they are taught about the profession
- Explore how students learn.
- Experience the classroom environment; become acquainted with teachers and teaching on a personal and professional level, including an internship in a local classroom setting.

TEACHERS FOR TOMORROW 2FC9072 (1 credit), 11th-12th grade**FCCLA and Educators Rising fee**

- Prepare for careers in education.
- Research postsecondary options.
- Learn about the process of teacher certification in Virginia.
- Participate in a practicum experience.
- Students have the opportunity to earn an industry credential at the end of the course.

FIREFIGHTING**FIREFIGHTING**FF8705 (2 credits), 10th - 12th grade***Students must be at least 16 years old by the first day of the course offering (Code of VA – 40-1.79.1)******Enrollment also requires parental permission***

- Requires discipline and attention to achieving the academic and professional standards necessary to successfully fight live fires, address hazardous-materials incidents, and conduct search-and-rescue operations.
- Become familiar with the procedures, equipment, and technologies used by current fire departments.
- Challenges students academically, mentally, and physically.
- Meets the standards of National Fire Protection Association (NFPA) 1001-2013 leading to Firefighting I certification.
- Students are required to pass the Hazardous Material Awareness and CPR and First Aid.
- Member of volunteer fire department; includes Saturdays.

HEALTH AND MEDICAL SCIENCES

INTRODUCTION TO HEALTH AND MEDICAL SCIENCES

HO8302 (1 credit)

- Develop the basic skills required in all health and medical science professions.
- Exploration of basic anatomy and physiology for each body system, communication skills, medical terminology, and career exploration.
- Emphasis on safety, cleanliness, asepsis, professionalism, accountability and efficiency within the health care environment.
- *Curriculum materials contain anatomical pictures, both male and female, of reproductive parts of the body.*

MEDICAL TERMINOLOGY

HO8383 (1 credit)

High School, 10th – 12th grades

- Designed to help students learn health care language.
- Exploration of body system's anatomy and physiology through pathology, diagnostic procedures, therapeutic interventions, and finally pharmacology.

Prerequisite: Intro to Health and Medical Sciences

SPORTS MEDICINE/ATHLETIC TRAINING 1

HO8316 (1 credit)

High School, 11th – 12th grades

- Introduction to sports medicine and related therapy professions.
- Learn the anatomy and physiology of the human skeletal and muscular systems and relate that knowledge to the treatment and conditioning of athletes.
- Laboratory practice of techniques used to strengthen, support, enhance, and rehabilitate the athlete.

SPORTS MEDICINE/ATHLETIC TRAINING 2

HO8317 (1 credit)

- Learn basic concepts and skill set required for an entry-level position as a sports medicine assistant.
- Topics include injury prevention, nutrition, first aid/CPR/AED, exercise physiology, and biomechanics.
- Study basic human anatomy and physiology, medical terminology, legal and ethical issues in sports medicine, and career preparation.
- Skills provided to pursue certification in areas such as first aid, CPR, AED, and/or personal trainer.

NURSE AIDE

HO8360 (2 credits)

High School, 12th grade

- This class is a state accredited nurse aid course, and meets all course requirements necessary for students to receive their CNA certificate.
- Provides scientific basis for patient care in the clinical area.
- Includes clinical experience in local hospitals, nursing homes and various outpatient facilities. Eligible to sit for the state board certification exam for nurse aides.
- *Curriculum materials contain anatomical pictures, both male and female, of reproductive parts of the body. Clinical experience may also include real-life encounters with human anatomy.*

Prerequisite: Intro to Health and Medical Sciences

Teacher recommendation

JROTC

(fees associated with all courses; honors credit available in LET 2, 3, 4)

JROTC/LET 1

EL7913 (1 credit)

- Development of traits such as citizenship, leadership, communication, fitness and teamwork.
- Military skills are used to teach self-discipline, confidence, pride.
- Learn military customs through proper wear of an issued uniform--worn one day per week.
- Participation in after school activities and teams: Drill, Raiders Marksmanship and Color Guard.

JROTC/LET 2

EL7916 (1 credit)

- Exposure to 7 units of leadership that builds upon skills learned in the LET 1 year.
- Strengthen academic, citizenship skills, civic attitudes; develop a sense of social responsibility through service learning projects.

JROTC/LET 3

EL7918 (1 credit)

- Serve as leaders, teachers and counselors within the battalion.
- Instruction includes cadet challenge, leadership LAB, American and military history, American citizenship, career opportunities, technology awareness, map reading, and first aid.
- Service-learning strengthens academics, citizenship skills, civic attitudes and develops a sense of social responsibility.

JROTC/LET 4

EL7919 (1 credit)

- Execute in roles as key leaders of the battalion.
- Lead the staff and company level positions in training, planning, and execution of all activities.
- Establishes clear educational goals through service learning.

EXCEPTIONAL EDUCATION

These courses are designed to meet graduation requirements for students with Individualized Education. Course placement will be determined in conjunction with the IEP Team and case managers.

PERSONAL LIVING AND FINANCE

BT3120 (1 credit)

- Navigate financial decisions and make informed decisions related to budgeting, banking, credit, insurance, spending, taxes, saving, investing, buying/leasing a vehicle, living independently, and inheritance.
- Prepare students to function effectively as consumers, savers, investors, entrepreneurs, and active citizens.

Eligible for the Workplace Readiness Skills test

PRE-BASIC JOB SKILLS

SP717-PRE (1 credit)

- Students will start *each* day with a review of their schedule for the day and complete a routine consisting of math, English, and job skills.
- As part of their routine, they may complete tasks in various parts of the school building, aiding their transition to the high school environment.

BASIC JOB SKILLS 1

SP717 (1 credit)

- Practice job skills in a supervised high school setting.
- Students will be given opportunities for independence as seen appropriate by the teacher.

BASIC JOB SKILLS 2

SP717-2 (1 credit)

- Practice job skills in a supervised/secure community or school setting.
- Students will be given opportunities to work independently, in small increments, as deemed appropriate by the teacher.

Teacher recommendation

BASIC JOB SKILLS 3

SP717-3 (1 credit)

- Practice job skills in a supervised/secure community or school setting.
- Students will be given opportunities to work independently, for 10-40 minutes, as deemed appropriate by the teacher.

Teacher recommendation

BASIC JOB SKILLS 4

SP717-4 (1 credit)

- Practice job skills in a supervised/secure community or school setting.
- Students will be given opportunities to work independently, for 40-90 minutes, as deemed appropriate by the teacher. Job training will be provided by school staff/job site employee.
- Students will be monitored by staff at varying intervals.

Teacher recommendation

BASIC JOB SKILLS 5

SP717-5 (1 credit)

- Practice job skills in a supervised/secure community or school setting.
- Students will be given opportunities to work independently, for 75-120 minutes, as deemed appropriate by the teacher.
- Job training will be provided by school staff/job site employee.
- Students will be monitored by staff at varying intervals.

Teacher recommendation

READING INTERVENTION

SP7911 (1 credit)

- Focus on bringing student reading levels close to or at grade level
- Focus on individualized needs for phonetics, whole word, and multi-sensory strategies
- Focus on learning and practicing reading strategies
- Focus on improving fluency, comprehension, and vocabulary development.

SCHOOL SUCCESS SKILLS

SP7990 (1 credit)

- Focus on learning the executive functioning skills needed to be successful in high school
- Focus on test taking, note taking, and organization skills
- Focus on social and coping skills as needed on an individual basis

ADAPTED PE

SP7700 (1 credit)

- Provides a positive movement experience in a one on one or small group setting with peer buddies.
- Provides opportunities to acquire and enhance the motor, cognitive and effective domains of learning physical skills and basic sports skills as well as enhancing their social interactions by working with other students.
- Students will be assessed each quarter and at the end of the year to determine their needs for the following year.

PERSONAL FITNESS AND STRESS MANAGEMENT

SP7960 (1 credit)

- After completion of PE9 and PE10, students will practice and develop personal fitness routines and stress management techniques in order to maintain healthy living skills for life.

LEISURE SKILLS

SP7970 (1 credit)

- After completion of PE9 and PE10, students will practice and develop leisure skills that they can do independently or with others

TRANSITION LAB - ENGLISH

SP7935 (1 credit), 11th grade +

TRANSITION LAB - MATH

SP7925 (1 credit), 11th grade +

- Students will generalize the English and math skills learned in the classroom in the community.

INDEPENDENT LIVING SKILLS 1, 2, 3

SP7896 (1 credit), 11th grade

SP7896-2 (1 credit), 12th grade

SP7896-3 (1 credit), Post-graduate

- Developing individual skills in order that students may live as independently as possible after high school.

COMMUNITY SERVICE

SP7980 (1 credit), 12th grade +

- Opportunities to participate in the community and practice social skills.

ONLINE COURSES AND DUAL ENROLLMENT

ONLINE OPTIONS THROUGH APEX, PHS AND VIRTUAL VIRGINIA

Online courses are offered for credit accrual or credit recovery. Virtual Virginia courses are taught by Virtual Virginia teachers with a PHS teacher mentor to provide support. PHS teachers teach the Apex and PHS courses. All courses are 1 credit unless otherwise denoted with an * indicating Semester Course (1/2 credit).

Virtual Virginia: Registration is available at Virtual Virginia's discretion based on seat availability. Virtual Virginia's fall registration closes on July 15th. Courses requested after that date are not guaranteed.

PROGRAM	CORE COURSES	ELECTIVES
APEX	English 9 -12 Algebra 1 Algebra Functions and Data Analysis Algebra 2 Geometry Biology Biology 2: Ecology Earth Science World History & Geography to 1500 World History & Geography 1500-Present Virginia and U.S. History Virginia and U.S. Government Economics and Personal Finance Health 9/10* Physical Education Grades 9/10*	Accounting Advanced Accounting Business Applications* Business Law Business Management Computer Applications* Human Resources Principles Information Technology Applications* Information Technology Fundamentals Introduction to Business and Technology Psychology* Sociology*
PHS	Economics and Personal Finance Health and PE 9/10	Creative Writing* World Mythology*
VIRTUAL VIRGINIA	American Sign Language 1,2,3,4 Arabic 1,2,3 Chinese 1,2,3,4 German 1, 2, 3 Italian 1,2 Latin 1,2,3,4	African American History Art Appreciation Creative Writing Digital Economy Skills Journalism Psychology Visual Art & Design World Mythology

LONGWOOD UNIVERSITY

ECONOMICS AND PERSONAL FINANCE – Summer School Course

DE6120OWSS

(1 Weighted High School Credit, 3 College Credits)

TUITION FEE PLUS BOOK FEE.

The coursework will be delivered in an online format but students will also have an on-campus experience the last day of the course. Students will come to Longwood University's campus to take their final exam (including W!SE exam), meet with faculty and staff, and take a campus tour! Parents/guardians are also invited to attend the final day at Longwood.

- Six hours per day spent on coursework (including weekends)
- Textbook and financial calculator are required
- Information on scholarships and examples of course delivery can be found at longwood.edu/personalfinance/

Prerequisite: 9th/10th graders - minimum 3.0 GPA and successful completion of Algebra 1; 11th/12th graders- no minimum GPA requirement

Course Dates / mid-June to mid-July

Mid-July / Mandatory examination day at Longwood University

REYNOLDS COMMUNITY COLLEGE –

DUAL ENROLLMENT

Credit for these courses are offered through Reynolds Community College during the regular school day. Students are expected to do significant reading and are required to study and review course materials before class so that they may participate in class discussions. Dual Enrollment courses are offered based on staffing, funding and student interest. **Students/Parents are responsible for the costs of tuition for all dual enrollment classes. Tuition is determined annually by an agreement with Reynolds.**

1. The tuition is to be paid to PHS by **August 1st** for first semester and **January 6th** for second semester
2. Students who withdraw from a course after the add/drop date will not be entitled to a refund.
3. Students will also be responsible for purchasing their own dual enrollment textbooks and supplies.

ADVANCE COLLEGE ACADEMY (ACA) –Reynolds Community College / PHS

The ACA provides students the opportunity to earn an associate's degree in social sciences from Reynolds Community College (RCC) while also earning an advanced studies high school diploma. All 8th grade students are eligible to apply for acceptance into the ACA. Students who are selected will take honors and AP level courses during the 9th and 10th grades and dual enrollment college courses during the 11th and 12th grades, earning 60 college credits at a minimal cost to their parents. The college credits are transferable to many colleges and universities in the state of Virginia.

GRADE 9	GRADE 10	SUMMER SESSION	GRADE 11	GRADE 12
English 9 Honors*	English 10 Honors *	Student Development 100	English 111 and English 112	English 245 and English 246
Biology Honors	Chemistry Honors, Physics Honors, or AP Environmental Science		AP or Honors Chemistry, AP Physics, or AP Environmental Science	Biology 101 and Biology 102
Pathway 1: Geometry Honors Pathway 2: Algebra II Honors	Pathway 1: Algebra II Honors Pathway 2: Math Analysis Honors		Math 167	Math 263
AP Human Geography*	AP World History*		History 121 and History 122	Political Science 135 and Political Science 136
World Language	World Language		World Language	Spanish 101 and Spanish 102**
Health and Physical Education 9	Health and Physical Education 10		Art History 101 and Art History 102	Approved Reynolds Elective and ITE152**
High School Elective	High School Elective <u>and</u> Economics and Personal Finance		High School Elective	High School Elective

*ACA cohort classes

BOLD = College classes

****Test out options available**

Note: College classes may be changed according to availability of teaching staff.

NOTES:

- See ACA Handbook for further program information.
- Economics & Personal Finance is required for HS graduation. Students are encouraged to take this course prior to the end of their 10th grade year.
- The Approved Reynolds Elective and ITE 152 should be completed prior to spring of senior year.
- Students who pass the college's computer competency test will not have to enroll in ITE 152.
- The Approved Reynolds Elective may be taken online during any semester (fall, spring, or summer) in the junior or senior years. A qualifying score (3 or above) on AP Human Geography or AP World History may be used to fulfill this requirement.
- Beginning with the Class of 2024, the Social Science AS curriculum will be updated to include the following: "Approved Reynolds Humanities/Fine Arts Elective - cannot be a literature course".

NON-CREDIT COURSES

STUDY HALL

NC0133

This course is for students who do not take a full seven period course load. Students in study hall are expected to: sit quietly, work independently and bring enough to work for the duration of the period. Students must abide by the cell phone policy. There is a minimum of 80% attendance requirement to remain enrolled in a study hall. During study hall passes will be given on a limited basis.

* Students that do not abide by these rules and expectations will be required to change their schedule to drop study hall and add a course in its place.

EARLY RELEASE/LATE ARRIVAL

NC9840E/NC9840L

Seniors Only.

Virginia State law requires that all students remain in school for a full day of scheduled classes. Therefore, these options are available only to those **seniors** who have enough credits to graduate without carrying a full load of classes. Late Arrival is an option for athletes and those students that cannot leave early because of schedule conflicts

- Students grades, overall attendance, and graduation requirements must be in good standing or they will lose this privilege.

ALTERNATIVE EDUCATION

The Alternative Education Program is designed to meet the needs of the “At-Risk” student. The goal of the program is to improve self-esteem, study skills, academic skills and to motivate students to pursue future goals. Students may refer themselves or be referred by school counseling, administration, teachers or parents. Students must meet eligibility requirements. In addition, the student and his/her guardian must sign a contract agreeing to the requirements of the program. Students needing support are enrolled in one or more of the programs below:

Counseling – Small groups or individual supports focused on academic skills, social skills and career exploration and readiness.

Individualized Student Alternative Education Plan (ISAEP/GED) - Students work with an instructor to evaluate and build skills in the areas of Math, Language Arts, Science, and Social Studies in preparation for taking the GED test. Students also complete the required Economics and Personal Finance course and are enrolled in a Career and Technical Education (CTE) course. Students interested in this program must meet certain guidelines and be approved by the Alternative Education Committee. Prerequisites are students must be at least 16 years old and achieve the minimum score on the GED Ready pretest.

Credit Recovery – Based on individual student needs through a program designed by a student’s school counselor and administrator.

Education for Employment – Workplace Readiness

EL9078 (

.5, or 1 credit)

The class is structured to help students find success in high school. Small class sizes allow the teacher to develop and build relationships with students throughout the year.

- Weekly 1 to 1 meetings with the teacher to review grades and planners help students stay on task and remain current on assignments and missed work.
- Class topics include: study skills, organizational skills, and character-building lessons. This combination fosters success in academic classes and overall self-improvement.
- Students will learn to self-advocate and reach out for help when needed.
- Guest speaker lectures help broaden student’s perspectives.
- Career planning discussions help students develop short and long term goals.

SUGGESTED COURSE SEQUENCES

For use with consideration of graduation requirements, student interest, teacher/counselor input, and post-secondary planning.

	6TH GRADE	7TH GRADE	8TH GRADE	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
ENGLISH							
Grade Level Path	English 6	English 7	English 8	English 9	English 10	English 11	English 12
Advanced Path	English 6	English 7	English 8 Advanced	English 9 Honors	English 10 Honors	English 11 Honors <i>or</i> AP English Language & Composition	English 12 Honors <i>or</i> AP English Literature
MATH							
Grade Level Path	Math 6	Math 7	Math 8	Algebra 1	Geometry	Algebra II <i>or</i> Algebra Functions, Data Analysis <i>or</i> Data Science <i>or</i> Game Design	Math Analysis
Advanced Path	Integrated Math 1	Integrated Math 2	Algebra 1	Geometry (plus Data Science, AP Computer Science/Principles, or Probability and Statistics)	Algebra 2 (plus Data Science, AP Computer Science/Principles, or Probability and Statistics)	Math Analysis <i>or</i> Discrete Math/Statistics <i>or</i> AP Computer Science <i>or</i> AP Statistics	AP Calculus <i>and/or</i> AP Computer Science <i>and/or</i> AP Computer Science Principles <i>and/or</i> AP Statistics
SCIENCE							
Grade Level Path	Science 6	Life Science 7	Physical Science 8	Biology <i>or</i> Environmental Science	Biology <i>or</i> Earth Science <i>or</i> Earth Science 2 <i>or</i> Biology 2 <i>or</i> Chemistry	Chemistry <i>or</i> Earth Science 2 <i>or</i> Biology <i>or</i> Biology 2	Physics <i>or</i> Chemistry <i>or</i> Earth Science <i>or</i> Biology 2
Advanced Path	Science 6	Life Science 7	Physical Science 8 Advanced (2020-2021 and beyond)	Biology	Physics or Chemistry, <i>and/or</i> AP Environmental Science <i>and/or</i> Anatomy	Physics <i>and/or</i> AP Chemistry <i>and/or</i> AP Biology <i>and/or</i> AP Physics <i>and/or</i> AP Environmental Science <i>and/or</i> Anatomy	Physics <i>and/or</i> AP Chemistry <i>and/or</i> AP Biology <i>and/or</i> AP Physics <i>and/or</i> AP Environmental Science <i>and/or</i> Anatomy
SOCIAL STUDIES							
Grade Level Path	US History I	US History II	Civics and Economics	World History 1	World History 2 (not required for Standard Diploma)	US History	US Government
Advanced Path	Integrated US History I	Integrated US History II	World History 1	AP Human Geography or World History 2 Honors	AP World History <i>or</i> AP Human Geography <i>or</i> World History 2 Honors	US History Honors <i>or</i> AP US History	US Government Honors <i>or</i> AP US Government

ARCHIVED SCHOOL BOARD APPROVED COURSES

20TH CENTURY AMERICAN HISTORY and FOREIGN POLICY

EL2387 (1 credit)

High School

- Examine the American entry and contribution in WWI; post-war settlement; various social, economic, and political trends of the 1920s; Great Depression; New Deal; American foreign policy in the inter-war era; and the American role in World War Two, and its effects on American society and culture.
- Explore the origins of and American responses to the Cold War, the rise of various reform movements in the 1950s-60s, the New Frontier and Great Society programs, the Vietnam War, and the rise of the New Right.

ADVANCED DESIGN, MULTIMEDIA AND WEB TECHNOLOGIES (Yearbook 2)

BT6631 (1 credit), 10th-12th

- Develop advanced skills for creating desktop-published, interactive multimedia, and website projects.
- Apply to be associate editors for the yearbook staff (optional).
- Participate in photography, photo editing, video production, and video editing for the yearbook.

ADVANCED DESIGN, MULTIMEDIA AND WEB TECHNOLOGIES 3, 4 - YEARBOOK

EL1215Y (1 credit), 11th – 12th grade

- Students must apply to continue with the yearbook for their 3rd and 4th years.
- Students in this course will be solely responsible for creating the yearbook and will be considered editors for the yearbook.
- Participate in photography, photo editing, video production, and video editing for the yearbook.

Prerequisite: Adv. DMWT

ADVANCED PE: FITNESS and CONDITIONING

HP7640 (1 credit)

High School

- Develop and implement a personal fitness and conditioning program for maintaining a healthy lifestyle.
- Focus on developing/improving aerobic capacity and muscular strength and endurance via running and/or lifting weights.

AP ART HISTORY

AR9151W (1 credit)

- Examine major forms of artistic expression from the ancient world to the present and from a variety of cultures.
- Review and analyze works of art within their historical context, and to articulate what they see or experience in a meaningful way. Learn how and why works of art communicate visual meaning.
- Do not have to have an art background.

Teacher recommendation

AP GERMAN

WL5270W (1 credit)

AP exam fee

- Follow the guidelines for the National AP German course
- Explore additional topics of study to enhance language learning and culture.

Teacher recommendation

ARCHITECTURAL DRAWING/DESIGN/CAD

TE8437 (1 credit)

High School

- Learn the principles of architecture and related drafting practices and techniques.
- Draw plot, foundation and house plans.
- Develop and draw electrical, heating and air conditioning and plumbing plans.

AUTOMOTIVE SERVICING 1

DE8710W

(3 high school weighted credits)

(13 college credits)

Grades 11-12, Placement Test+ passing Alg 1 SOL score

TUITION & BOOK FEE

Students working to attain industry certification may be required to attend a summer school class. Options available may include:

- AUT111 Automotive Engines 1, AUT112 Automotive Engines 2, AUT265 Automotive Braking Systems, AUT266 Auto Alignment, Suspension and Steering

AUTOMOTIVE SERVICING 2*DE8711W**(3 high school weighted credits)**(14 college credits)**Grade 12, Automotive Servicing 1***TUITION & BOOK FEE**

A continuation of Automotive Servicing 1. Options available may include:

- AUT241 Automotive Electricity 1, AUT242 Automotive Electricity 2, AUT178 Auto Final Drive & Manual Transmissions, AUT236 Auto Climate Control

BEAUTY SALON ASSISTANT

CO8546 (1 credit) - 10th and 11th grade

- Prepare for work as an assistant in a hair salon.
- Study and prepare in a clinical lab setting, learning practical and manipulative skills.
- Emphasize safety and sanitation, shampooing and conditioning, retailing, inventory control, and receptionist work.
- Competency completions allow students a certificate for entry-level employment with additional certifications available in College and Work Readiness Assessment (CWRA+); Customer Service Examination; National Career Readiness Assessment; and Workplace Readiness Skills for the Commonwealth Examination

BEGINNING STRING ORCHESTRA

MU9237 (1 credit)

- Need previous instrumental or choral music experience.
- Perform Grade 1, 2 literature.
- Purchase accessories necessary for participation.

BRIDGE ENGLISH 9, 10, 11, and 12

EN1140BR, EN1150BR, EN1160BR

(1 credit)

- Part of the alternative education program.
- Designed for students who are struggling or have failed an English course.

Teacher recommendation

BUILDING TRADES 2

CT8516 (2 Credits) Double Block Class, 11th -12th grade

Lab fee, and SkillsUSA student organization fee

- Emphasis on lab safety, jobsite safety.
- Students will expand on their skills in the four core areas of residential construction: carpentry, electricity, plumbing and masonry.
- Students will expand on their knowledge of and practice building residential structures using a variety of materials and tools in lab setting.
- Students will expand on their knowledge of residential construction, blueprint reading, building codes, application on the jobsite.
- Students will expand on their knowledge of theory and mathematical problems related to the four core areas of residential construction: carpentry, electricity, plumbing and masonry.
- Students will expand on their knowledge of the process of estimating the cost of materials and job cost.

BUSINESS CO-OP

BT6621 (1 credit) - 11th or 12th grades

- Develop career skills through on the job training.
- Secure a salary-earning job.
- Work a minimum of 12 hours per week utilizing personal transportation.

CAREER, COMMUNITY AND FAMILY CONNECTIONS – CHILD WATCH

FC8282 (1 credit)

- Focuses on balancing the multiple demands of career, family, and personal life.
- Teaches problem solving, conflict management, goal setting, stress management, and resource management in work and family.
- Incorporates interpersonal skills, needed to build strong relationships in the family and workplace.
- Participate in the morning child watch program by working with elementary school students and their families.

CHAMBER ENSEMBLE

MU9292 (1 credit)

- Select acapella group.
- Review fundamentals of music, improve vocal quality, and sight singing ability.
- Participate in musical activities and performances

CULINARY ARTS 2 / CULINARY ARTS SPECIALIZATION

DE8279W

Two-year program

(2 high school credits, 7 college credits)

TUITION & BOOK FEE

Students work to attain industry certification in Service Safety.

- HRI106 Principles of Culinary Arts I (year 1 / 3 college credits)
- HRI115 Food Service Managers Sanitation Certification (year 1 / 1 college credit)
- HRI219 Stock, Soup, and Sauce Preparation (year 2 / 3 college credits)

DE PRINCIPLES OF CULINARY ARTS

DE8279W (1 credit)

High School

Dual Enrollment only

Lab fee

- Obtain advanced instruction in food preparation methods, skills, and techniques, as well as nutrition, and menu planning and costing.
- Improve job skills through restaurant operation for part of the school year.
- AAFACS Pre-Pac Test is given at the end of this course. Industry Certification and verified credit is available to students passing both the course and the test

Teacher recommendation

Prerequisite: Culinary Arts 1

DE TEACHERS FOR TOMORROW 1

DE9062W

(1 weighted credit, 4 college credits)

Prerequisite: Grades 11-12, must have and maintain at least a 3.0 GPA, teacher recommendations and approved application

TUITION FEE PLUS BOOK FEE.

- Virginia's initiative for recruiting high school students into the teaching profession.
- Examine the history of education and the functions of schools and school divisions as they are taught about the profession. Explore how students learn.
- Experience the classroom environment as they become acquainted with teachers and teaching on a personal and professional level, **including an internship in a local classroom setting.**
- Provide students with opportunities to satisfy beginner teacher assessment
- Students earn a 3 -yr. pre-professional certification in Education Fundamentals through AAFCS.

Activities through student organizations FCCLA and Educators Rising are required.

DESIGN, MULTIMEDIA AND WEB TECHNOLOGIES (Yearbook 1)

BT6630 (1 credit), 9th-12th

- Develop proficiency in creating desktop publications, multimedia presentations and websites using industry standard application software.
- Incorporate principles of layout and design in completing publications and projects.
- Participate in photography, photo editing, video production, and video editing for the yearbook.

DIGITAL BUSINESS SOLUTIONS

EL6161 –

Middle School

- Strengthen ability to utilize input devices and industry standard software and practices to create desktop publications, presentations, and websites.
- Use Google Sites to create an ePortfolio of their works and organize their small business development unit.
- Develop leadership skills through the study of the FBLA organization and participate in the PMS FBLA chapter.

DIGITAL VISUALIZATION

BT8459 (1 credit)

- Students gain experiences related to computer modeling by using graphics and design concepts.
- Create a variety of 3-D Objects and animations that reflect real-world applications and are introduced to 3D modeling software, 3D printing and Virtual Reality.
- Produce a portfolio showcasing examples of original student work.

DISCRETE MATHEMATICS

MA3154 (1/2 credit)

- Study mathematical properties of sets and systems that have a countable (discrete) number of elements.
- Solve problems in a discrete setting.
- Solve problems by developing a model or analyzing special cases to arrive at a solution.

ENGINEERING DRAWING/DESIGN/CAD

TE8436 (1 credit)

High School

- Learn the graphic language used by engineers, manufacturers, and technicians.
 - Interpret industrial prints to use handbooks with resource materials, and to adhere to standards for drafting.
 - Apply drafting principles to typical engineering drawing and design problems.
-

ENGLISH 12 / UNITED STATES and VIRGINIA GOVERNMENT – Global Literacy and Government

EN1160GLG (1 credit) + SS2440GLG (1 credit)

- Taught as a hybrid course: a blend of online/in-person sessions.
 - Explore a survey of British and world literature.
 - Examine a variety of genres while focusing on historical and cultural backgrounds.
 - Study fundamental constitutional principles, the rights and responsibilities for citizenship, the political culture, the policy-making process at each level of government, and the US market economy.
 - Enhance knowledge of proper research techniques.
 - Prepare journals, resumes, and research papers.
 - Practice public speaking.
 - Emphasize problem-based service learning as a means of strengthening citizenship and literacy skills.
-

ENTREPRENEURSHIP

BT9093 (1 credit)

- This course introduces students to the exciting world of creating, owning, and launching their own business.
 - Learn concepts and techniques for planning an innovative business and living the entrepreneurial lifestyle.
-

FILM AS LITERATUREEL11056 (1 credit), 11th- 12th grade

- Study how literature is adapted for film or media based on the Virginia Standards for English/Language Arts.
 - Read about the history of film and the reflection or influence of film on the culture.
 - Examine the visual interpretation of literary techniques and auditory language in film and the limitations or special capacities of film versus text to present a literary work.
-

FORESTRY MANAGEMENT

AG8042 (1 credit)

- Instruction in the management of the forest as a resource and as a business.
 - Develop knowledge in areas like tree physiology, forest ecology, silviculture, and the management and marketing of forest products.
 - Strong emphasis is placed on developing career skills for the forestry industry.
-

FOUNDATIONS OF ALGEBRA

MA2003EL (1 elective credit)

High School

- Provide development of topics covered in Algebra 1.
 - Apply algebraic concepts and processes to the real world.
 - Use graphing calculators and computer software.
-

GATEWAY TO TECHNOLOGY 8 (PROJECT LEAD THE WAY)

EL8476 Full Year

- Acquire a foundation through Design and Modeling.
- Discover the design process and develop an understanding of the influence of creativity and innovation.
- Discover an understanding to solve medical mysteries and learn how the systems of the human body work together.
- Work with software applications to design and fabricate 3-D replicas.

Explore architecture, energy in the environment and green architecture.

GERMAN 1**GERMAN 2****GERMAN 3****GERMAN 4 HONORS**

WL5240W (1 credit)

- Demonstrate novice-high / intermediate-low proficiency in all communication skills (listening, speaking, reading, and writing).
- Participate in instruction and activities completely in German.
- Manipulate and create in the language with increased proficiency in manipulating the language in a culturally appropriate manner.

GLOBAL MARKETING AND TRADE

BT8135 (1 credit)

- Gain an understanding of the various careers in global trade, finance, distribution and marketing and consider fundamental concepts, principles, and theories of marketing in a global marketplace.
 - Blends economic theory with international culture, politics, legal issues, concepts, practices, and applications.
-

HISTORY OF SPORT

EL2996 (1/2 credit)

High School

- Examines the impact of sport starting in colonial times and extending into the present.
 - Evaluates the cultural and social ramifications of sport during these times.
 - Study the impact of ethnicity, gender and race in relation to political and economic interests.
 - Introduces career options in sports marketing, coaching and sports management.
-

HISTORY OF WARFARE

EL2996 (1 credit)

- Study the impact of conflict on human development throughout history. Students will analyze how conflict has influenced our world.
 - We will look at the establishment of national identities, the role of historic leaders, military impact on scientific development, societal and economic changes resulting from warfare. Additionally, students will become familiar with historic attempts used to avoid conflict, the development of battlefield tactics and the use of strategy.
 - Students will study conflicts ranging from minor tribal conflict to global war and use this knowledge to analyze modern political environments.
-

HORTICULTURE 3: Floriculture

AG8038 (1 credit) - 11th or 12th grade

- Emphasis on management and individualized projects in plant production.
 - Learn the basics of the horticulture plant production industry, including the science of plant production, as well as marketing and business management.
 - Plant material identification and floral design round out this course to prepare the student for an entry-level position in the floriculture industry.
-

INDEPENDENT LIVING

FC8219 (1 credit)

Middle School

- Uses hands on experience to introduce nine areas of personal living: personal growth and development, home and family management, health and wellness, food and nutrition (cooking), interior design and housing, consumer awareness and personal finance, clothing management, child development, and career exploration.
 - Includes labs in food preparation, garment construction and projects.
-

INTEGRATED SCIENCE 2 – 7 ADVANCED

SC4125A (available through 2019-2020)

SOL test

- Integrates components of 6th grade curriculum with the Physical Science 8 course to allow for acceleration.
- Pace and homework is more intense than Life Science.
- Incorporate key Life Science concepts in preparation for the SOL test

Teacher recommendation

INTRODUCTION TO EARLY CHILDHOOD EDUCATION

FC8233 (1/2 credit)

FCCLA and Educators Rising fee

- Focus on the principles of child growth and development: development of self- concepts and building self-esteem; appreciation of diversity; learning experiences for children; principles of guiding children in a positive manner; healthy and safe environments; career development through hands-on exploration, projects and group learning.
 - Multiple opportunities to observe and work with children. Activities through student organizations.
-

INTRODUCTION TO MARKETING

BT8110 (1 credit) - 9th - 10th grades

- Gain an understanding of the importance of marketing in today's society.
 - Develop skills related to interpersonal communication, self-presentation, economics, marketing, sales, employability, career discovery, and ethical decision-making.
-

LAUNCH: A DESIGN THINKING CAPSTONE

EL4999 (1 credit), 11th - 12th grade

- Explore and research an area of interest or passion.
 - Design a better product, process, or solution to a real world problem.
 - Independent study course merging the school environment with real-life experiences.
 - Present to local community or government organizations for feedback and revision.
-

LEADERSHIP DEVELOPMENT

FCCLA membership fee

- Develop individual / group leadership skills.
 - Explore leadership principles, parliamentary law, communication, public relations skills, and techniques for organizing/conducting group meetings and activities.
 - Guest speakers, PowerPoint presentations, lecture, video, community activism and group projects.
 - Project-based activities through state and national FCCLA.
-

LIFE PLANNING

FC8227 (1 credit)

- Develop an appreciation of the responsibilities of a young adult and the skills to survive independently
 - Explore personal finance and money management, character development, values, workplace readiness and job seeking skills. Learn how to pay yourself first, create a budget, buy a car, rent an apartment, and create nutritious meals
 - Instruction includes labs in food preparation, flat pattern and room design
 - Leadership opportunities available through co-curricular student organization Family, Career and Community Leaders of America (FCCLA)
-

LOGIC, GRAMMAR, AND RHETORIC

EL1516 (1 credit) - 12th grade

- Through the studies of logic, grammar, and rhetoric, we will strive to find order in a chaotic world.
- Read and write different pieces that focus on persuasion and literary art forms.

Teacher recommendation

MARKETING

BT8120 (1 credit) - 10th - 12th grades

- Opportunity to become familiar with marketing and its relation to the free enterprise system.
 - Topic areas include communication skills, economics, human relations, promoting/selling products and services, economic issues and the impact of technology.
 - Use communication technology daily.
-

PHOTOGRAPHY 2

AR9191 (1 credit)

Lab fee, 35mm camera, and digital camera, film, paper

- Design work emphasizing photography as an art form; mastery of the 35mm film and digital capture techniques, darkroom and digital processes
 - Exploration in mastering light / exposure, digital imaging, portfolio development, and black and white darkroom technique
-

POWER SYSTEMS

AG8018 (1 credit)

- Focus on increasing the depth of study in power and technical systems. Areas of these systems to be addressed are engines, powertrains, hydraulics, electrical, and fuels.
 - Instruction will also be provided in precision measurement, leadership, and career skills.
 - This is an introductory class that leads to specialization in small engine, welding, carpentry or electricity.
-

READING 9

EN1181 (1 credit)

- Use a variety of text and media sources, to developing reading strategies.
 - Activate and apply prior knowledge, summarize; organize ideas; visualize; make connections; sequence; note details; thinking critically; use context clues; use picture cues; and recognize literary genres and elements.
-

SOCIOLOGY

EL2500 (1/2 credit)

- Provides the background and framework to better understand their roles in society and the effects of various groups' actions and interactions on society.
 - Incorporates concepts learned in other disciplines of social studies such as responsibilities; rights; cause and effect; choices and their impact; the importance of communication, organizations, relationships, and the major American cultural institutions.
-

SPORTS, ENTERTAINMENT AND RECREATION MARKETING

BT8175 (1 credit)

- Develop a thorough understanding of marketing concepts and theories as they relate to the sports, entertainment, and recreation industries.
 - Investigate the components of branding, sponsorships and endorsements, as well as promotion plans needed for sports, entertainment and recreation events.
-

TEACHERS FOR TOMORROW 1 Dual Enrollment

DE9062W - Grades 10-12

(1 weighted credit, college credit)

Tuition and Book Fee

FCCLA fee

- Virginia's initiative for recruiting high school students into the teaching profession.
 - Examine the history of education and the functions of schools and school divisions as they are taught about the profession. Explore how students learn.
 - Experience the classroom environment; become acquainted with teachers and teaching on a personal and professional level, **including an internship in a local classroom setting.**
 - Provide students with opportunities to satisfy beginner teacher assessment
 - Earn a 3 -yr. pre-professional certification in Education Fundamentals through AAFCS.
 - Leadership opportunities available through co-curricular student organization Family, Career and Community Leaders of America (FCCLA).
-

TECHNICAL DRAWING AND DESIGN

TE8435 (1 credit)

High School

- Learn the basic language of technical design, while they design, sketch, and make technical drawings, illustrations, models, or prototypes of real design problems.
 - Develop spatial ability as they apply mathematical concepts to visual representations.
-

VIDEO AND MEDIA TECHNOLOGY

TE8497 (1 credit) - 10th – 12th grades

- Production, from planning and writing for production to operating studio and editing equipment.
 - Utilize various methods of gathering news and information from individuals, research, and online resources.
 - Introduction to analog and digital principles of film production.
-