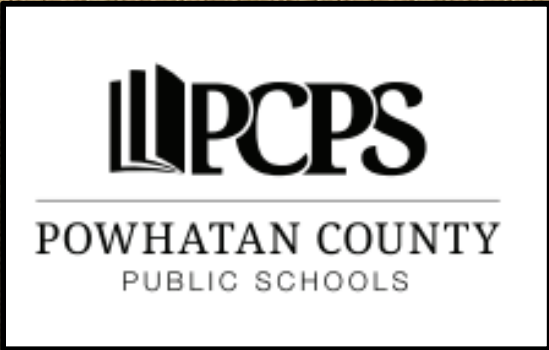


2018 — 2019



SECONDARY
COURSE
PLANNING
GUIDE



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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 prior to promotion from middle school are not counted as part of the high school cumulative grade-point average (GPA). After promotion from the eighth grade, 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	Regular	Quality Points	
			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	No quality points – Middle School only
DE	Dual Enrollment	Weighted Quality Points
EL	Elective in a core subject	Depends on the course
H or Honors	Honors	Weighted Quality Points
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 June graduation.

HONORS PLACEMENT

To enroll in an honors 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 **April 30**. 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, family and consumer sciences, health and medical sciences, horticulture, electricity, JROTC, cosmetology 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 offered in agriculture, computer applications, and family and consumer sciences for high school credit. There are also middle school courses 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.**

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, Longwood University, and Shenandoah 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.

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 2320 Skaggs Road, Powhatan, Virginia 23139, and (804)598-5700.

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 six* 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. Students must earn 2 credits from Foreign Language, Fine Arts or CTE. Of the 2 credits, one must be from Fine Arts or CTE.

- Students must earn 2 sequential elective credits.
- Students must earn a CTE credential.

ADVANCED STUDIES DIPLOMA

A student must complete the same requirements as the Standard Diploma and earn at least 26 standard units of credit and at least nine* verified credits by passing end-of-course SOL tests or other assessments approved by the Board of Education.

*Students entering 9th grade in 2018-19 and beyond must only earn five verified credits for the Standard and Advanced Diploma.

Other Notable Diploma Requirements (Standard and Advanced Studies)

- All students MUST take a virtual course – it may be non-credit bearing.
- Students entering 9th grade in 2016-17 and beyond 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 to earn a Standard or Advanced Studies diploma.

APPLIED STUDIES DIPLOMA (formerly Special Diploma)

Available to students with disabilities who complete the requirements of their 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 http://www.doe.virginia.gov/administrators/superintendents_memos/2006/inf131.html

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.

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.

DIPLOMA REQUIREMENTS

Standard Diploma			Advanced Studies Diploma		
Discipline Area	22 Standard Credits	6 Verified Credits*	Discipline Area	26 Standard Credits	9 Verified Credits*
English Mathematics 2 different courses from the following: Algebra 1, Geometry, Algebra Functions and Data Analysis, Algebra 2, or other courses above the level of Algebra 2 Laboratory Sciences 2 different science disciplines from the following: Earth Science, Biology, Chemistry, or Physics Social Studies World History and Geography (1) U.S. and Virginia History (1) U.S. and Virginia Government (1) Health and Physical Education Foreign Language, Fine Arts or CTE (1 credit has to be Fine Arts or CTE) Economics and Personal Finance Electives Courses to satisfy this requirement shall include at least two sequential electives	4 3 3 3 2 2 1 4	2 1 1 1 1 Other	English Mathematics 3 different courses from the following: Algebra 1, Geometry, Algebra 2, or other math courses above the level of Algebra 2 Laboratory Sciences 3 different science disciplines from the following: Earth Science, Biology, Chemistry, or Physics Social Studies World History and Geography (2) U.S. and Virginia History (1) U.S. and Virginia Government (1) Foreign Language One language for three years or two languages for two years each Health and Physical Education Fine Arts or CTE Economics and Personal Finance Electives	4 4 4 4 3 2 1 1 3	2 2 1 Other
Total Credits	22	6 verified*	Total Credits	26	9 verified*

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 entering 9th grade in 2018-19 and beyond must only earn five verified credits for the Standard and Advanced Diploma.

APPLIED STUDIES DIPLOMA

Special education services are provided in accordance with an Individualized Education Plan (IEP). Credits recommended for graduation with an **Applied Studies Diploma** (as prescribed by the IEP team):

Discipline Area	Credits Required
English	4
Math	3
Science	2
History and Social Science	2
Health and Physical Education	2
Fine Arts or CTE	1
Electives	6
Total Credits	20

STUDENT ACADEMIC AND CAREER PLAN – Grades 6-12

Students will utilize Virginia Education Wizard (<https://www.vawizard.org/vccs/Main.action>) to assist with career investigation and planning. In addition, students may refer to available career clusters: [Right Click HERE](#) and [Open to Explore all Career Clusters](#). (not all courses may be available through PCPS).

ENGLISH and LANGUAGE ARTS

ENGLISH 6

EN1109

- ✓ SOL test
- Will 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 test
- Develop oral communication skills
- Refine written composition skills
- Focus on vocabulary development
- Study the influence of mass media
- Increase proficiency in the use of print and electronic information resources.
- Understand literary elements contained in short stories, poetry, nonfiction, drama, and novels

ENGLISH 7 ADVANCED

EN1110A

- ✓ SOL test
- Develop oral communication skills
- Refine written composition skills
- Focus on vocabulary development through a study of figurative language
- Study the influence of mass media
- Increase proficiency in the use of print and electronic information resources.
- Understand literary elements contained in short stories, poetry, nonfiction, drama, and novels
- Study challenging vocabulary, projects and advanced writing activities
- Intensive reading assignments including AR, supplemental novels and plays

Teacher recommendation

ENGLISH 8

EN1120

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

ENGLISH 8 ADVANCED

EN1120A

- ✓ SOL test
- Focus on the writing process including projects and advanced writing activities
- Intensive reading assignments including AR, 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)

- Explore prose, poetry, and drama from different cultures and eras.
- Improve reading comprehension.
- Write three-part essays.
- 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)

- 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

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.

BRIDGE ENGLISH 10

EN1140BR

(1 credit)

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

Teacher recommendation

ENGLISH 10

EN1140 (1 credit)

- ✓ SOL End of Course test (Writing)
- 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)

- ✓ SOL End of Course test (Writing)
- 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.

Teacher recommendation

ENGLISH 11

EN1150 (1 credit)

- ✓ SOL End of Course tests (Reading)
- 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)
- 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.
- 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)
- Read complex texts, write a variety of prose, and analyze meaningful images to communicate thoughts and convey ideas effectively.
- Contribute through class participation, research, independent study (including summer reading and writing).
- Perform timed writing assignments and simulated AP tests.

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)

AP exam fee

- 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

JOURNALISM

EL1200 (1 credit)

- 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 put in time beyond the classroom.
- Expand existing computer, photography, and visual art skills.

MATHEMATICS and COMPUTER SCIENCE

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

MA 3110 (6TH), 3111 (7TH), 3112 (8TH) DB

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

MATH 6 ADVANCED*

MA3110A

Middle School

✓ SOL test

- Focus on arithmetic and algebra which should 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

MATH 7 ADVANCED*

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

- Review algebraic expressions, integers, and mathematical properties, first-degree equations and inequalities in one or two variables.
- Study graphing, polynomials, quadratic equations, statistics, data analysis and systems of equations.

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

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

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 (formal and informal) 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 and data analysis.
- Generate data by practical applications arising from science, business, and finance.

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 throughout the course of study.

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 throughout the course of study.
- Develop an in-depth understanding of the topics as well as to draw relationships among the concepts studied.

Graphing calculator highly recommended

Teacher recommendation

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 including vectors, parametric and polar equations, sequences and series.
- Prepare for further mathematical study in Analytic Geometry or Calculus

Graphing calculator required

Teacher recommendation

MATH ANALYSIS HONORS

MA3162W (1 credit)

- Further develop students' understanding of algebraic and transcendental function with a focus on polynomials, exponential, logarithmic, rational and radical functions, and conic sections as independent learners.
- Examine the relationship between algebra, geometry, and trigonometry and their real world applications including vectors, parametric and polar equations, sequences and series.
- Prepare for further study in Calculus.
- 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

CALCULUS

MA3176 (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.

Graphing calculator required

Teacher recommendation

AP CALCULUS A/B LEVEL

MA3177W (1 credit)

AP exam fee

- Study limits and continuity, derivatives and their applications, integrals and their applications, anti-derivatives and the Fundamental Theorem of Calculus, and an introduction to differential equations using slope fields.
- Work with functions represented graphically, numerically, analytically, and verbally.
- Prepare for the AP Calculus AB Exam.

Graphing calculator required

Teacher recommendation

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.

PROBABILITY and STATISTICS

MA3190 (½ credit)

- Explore concepts and techniques for collecting, displaying and analyzing data, drawing conclusions, and making predictions.
- Investigate measures of central tendency, probability, combinatorics, and experimental design.

Graphing calculator highly recommended

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

GAME DESIGN & DEVELOPMENT / INTRODUCTION TO PROGRAMMING

MA3184 (1 credit)

- Utilize different gaming programming languages such as Scratch, AppInventor, Construct 2 and GameMaker Studio 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

EL6641 (1/2 credit)

- Utilize different gaming programming languages (including Construct 2 and GameMaker Studio) to develop Video Games.
- Develop introductory level programming skills including programming logic and problem solving, as well as 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

EL6302 (1/2 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 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.
- Prepare to take the Advanced Placement examination, for which college credit and/or placement may be given in a qualifying score is achieved.
- Approved by the College Entrance Examination Board.

Teacher recommendation

AP COMPUTER SCIENCE: PRINCIPLES

MA3201W (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.

Teacher recommendation

SCIENCE

(see Course of Study Options in Appendix for additional information)

SCIENCE 6

SC4105

- Study methods for testing the validity of predictions and conclusions
- Utilize scientific methodology, focusing on precision in stating hypotheses, and defining dependent and independent variables,
- Explore concept of change through the study of transformations of energy and matter
- Focus on the role of the sun's energy in Earth's systems, on water in the environment, on air and atmosphere, and on basic chemistry concepts.
- Understand the solar system and space exploration
- Emphasize natural resource management, public policy, and cost/benefit tradeoffs

INTEGRATED SCIENCE 1 - 6 ADVANCED

SC4105A

- Integrates components of the 6th grade curriculum with the Life Science 7 course to allow for acceleration in grade 8.
- The pace and amount of homework is more intense than 6th grade Science

LIFE SCIENCE 7

SC4115

- Understand patterns in nature, the cell, genetics, evolution, and the human body
- Participate in hands-on activities, labs and multi-media presentations
- Perform animal dissection to enhance understand of the functions of the animal body

INTEGRATED SCIENCE 2 – 7 ADVANCED

SC4125A

✓ 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

PHYSICAL SCIENCE 8

SC4125

✓ SOL test

- Understand the nature and structure of matter, characteristics of energy
- Application and use of scientific methods, measurement and analysis
- Conduct and discuss both orally and in writing, lab experiments relevant to the curriculum
- Application of basic mathematical functions to complete calculations using physics formulas

EARTH SCIENCE

SC4210 (1 credit)

Middle School or High School

✓ SOL End of Course test

- 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.

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

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.

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

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 the skills needed to analyze the issues concerning the environment that carry on to real life situations.
- Conduct most labs outdoors.

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.

Parents may request in writing an alternative to animal dissection. per 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.
- There is a heavy emphasis on math.

Prerequisite: Geometry

Teacher Recommendation

CHEMISTRY HONORS

SC4410W (1 credit)

✓ SOL End of Course test

- Investigate the structure of matter and chemical reactions, and advanced topics of molecular structure, thermodynamics and acid-base chemistry.
- Emphasize mathematical applications of chemistry.
- 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

Teacher recommendation

CONCEPTUAL PHYSICS

SC4510 (1 credit)

- 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

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. per Va. Code § 22.1-200.01

Minimum Co-requisite: Chemistry

Teacher recommendation

AP CHEMISTRY

SC4470W (1 credit)

AP exam fee

- 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**Teacher recommendation***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; electric charge and electric force; DC circuits; and mechanical waves and sound.

*Concurrent enrollment in Algebra 2 or higher**Teacher recommendation***HISTORY AND SOCIAL SCIENCES***(see Course of Study Options in Appendix for additional information)***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; write essays..

*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 continues to shape the world's political and economic landscape.

INTEGRATED US HISTORY II – 7**ADVANCED**

SS2354A

- ✓ Civics and Economics **SOL** test
- Examine the same content in US History II while incorporating relevant concepts from Civics and Economics 8.
- Work with additional primary source documents; write essays.

*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 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 College Board Placement Test.
- Incorporate research writing and historical interpretive essay writing.

Teacher recommendation

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.

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.

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

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.

Teacher recommendation

AP PSYCHOLOGY

EL2902 (1 credit)

AP exam fee

High School, 11th and 12th grade

- 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.

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 reach those goals. The plan developed and implemented by the student will be personal fitness plan which will include physical activity and diet and nutrition.
- Realize the benefits of developing their own unique exercise plan and be able to 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.

HP7300ON8 (1 credit) –Online/8th class

- Designed for students who are self-motivated to exercise.
- Requires a Polar device that connects with the online program.
- Complete activity logs and written assignments.
- Meet monthly during Indian time for assessment.

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.

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 10

HP7400ON8 (1 credit) -Online

- Designed for students who are self-motivated to exercise on their own.
- Need to buy a Polar device that connects with the online
- Complete activity logs and written assignments.
- Meet monthly during Indian time for assessment

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 Graders: 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.
- 11th/12th Graders: Students need to have an interest in Physical or Special Education instruction to take the course as an **elective**.
- Provides the opportunity to work with their peers who have a disability either one on one or in a small group setting.
- 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 only

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

Teacher recommendation

WORLD LANGUAGES

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

GERMAN 1

WL5210 (1 credit)

- Demonstrate novice-low proficiency in all communication skills (listening, speaking, reading, and writing).
- Complete activities and projects to support.
- Study geography and cultures of various German-speaking countries.

GERMAN 2

WL5220 (1 credit)

- Improve German communication skills.
- Demonstrate novice low-mid proficiency in all communication skills.
- Complete activities and projects designed projects to support culture and language development.
- Continue study of various German-speaking countries.

Teacher recommendation

GERMAN 3

WL5230 (1 credit)

- Demonstrate novice mid-high proficiency in all communication skills (listening, speaking, reading, and writing).
- Complete activities and projects designed projects to support culture and language development.
- Continue study of cultures of various German-speaking countries.

Teacher recommendation

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.

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

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 more exposure to authentic literature in Spanish.
- Demonstrate levels of communication in the intermediate range
- Expand the study of cultures of various 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

ELECTIVES – 6th and 7th GRADE

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

READING 6

EL1106 - Full year

Required for all students

- Focus on reading as a transition to middle school.
- Supplement the English 6 curriculum as well as reading the content areas.

ART 6

EL9103 - 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.

BEGINNER BAND 6

MU9230 – Full Year

- Learn the basics of instrumental performance and progress to playing in a full ensemble using a variety of music.
- Perform concerts and will collaborate with other ensembles in a variety of large and small settings.

CHORUS 6

MU9269 – 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

COMPUTER TECHNOLOGY 6

EL60121 - 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

PERCUSSION 6

MU9230P– Full Year

- Foundational study of the percussive arts.
- Perform concert band parts and concert percussion music in this class.
- Purchase and/or own sticks, mallets and other accessories necessary for participation in this class.

MUSIC TECHNOLOGY 6

EL5124 - Semester

- Create, compose and explore music sequencing
- Emphasis on music theory and piano performance

AGRISCIENCE 7

EL8003 - 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 PJHS FFA chapter

ART 7

EL9106 - Semester

- Incorporates design elements in all projects
- Focus on drawing and realistic representation
- Study of Art History – American

BAND 7

MU9231 – Full Year

- Develop playing skills and musicianship through classroom rehearsal
- Increase proficiency through the use of composition projects
- Participate in solo and small ensemble performances, concerts and band festivals
- Study music from the pop, classical, jazz, rock and contemporary genres

CHORUS 7

MU9270 – 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

INTRO TO DESIGN, MULTIMEDIA, AND WEB TECHNOLOGY 7

EL6632 - Semester

- Create publications and multimedia presentations using a variety of programs.
- Introduce the principles of layout and design.
- Learn beginner level technical skills with a variety of technology, including digital cameras, and video cameras.
- Create a web based portfolio of publications, animations and video.

MUSIC CREATION STUDIO 7

EL TBD - Semester

- Create, compose and explore music sequencing through music production software
- Emphasis on layering tracks, producing and designing original work

PERCUSSION 7

MU9321P – Full Year

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

TECHNOLOGY 7

EL TBD – Full Year

- Explore technology through the Science of Technology, Energy and the Environment, and Flight and Space.
- Learn how to use a variety of equipment including a saw, drill, soldering gun, and flight simulation software.
- Apply concepts of chemistry, physics, nanotechnology, aeronautics, and mechanical systems.

WORLD LANGUAGES EXPLORATORY – 6 or 7

EL5700 - 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

FINE and PERFORMING ARTS

ART

ART 8

AR9115

- Explore principles of design.
- Emphasis on Painting Drawings and Crafts.

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)

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 work 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

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.
- Targeted for seniors with no Art class experience.

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. For the final exam students will submit a portfolio of 24 works to the College Board.

Summer assignment

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.

Summer assignment

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.

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 HONORS*AR9191W (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***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***INSTRUMENTAL MUSIC***(Fees associated with most courses)***BAND 8***MU9233 (Full Year)*

- Develop instrumental and performance skills through classroom rehearsal and performance of technically challenging music
- Work towards mastery in articulations, phrasing, tone and intonation
- Participate in numerous concert band festivals, All-District Solo, and Ensemble Festival
- Can participate in the PHS Marching Band and the PJHS Jazz Band.

ADVANCED BAND 8*MU9233A (Full Year)*

- Read and perform more technologically challenging music
- Create melodic and rhythmic variations
- Investigate the relationship of music to other disciplines
- Analyze various cultures, musical styles, composers, and historical periods

*Audition required. Students will have additional contractual requirements.***PERCUSSION 8***MU9229P (Full Year)*

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

BEGINNING STRING ORCHESTRA*MU9237 (1 credit)*

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

CONCERT BAND*MU9232 (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 ENSEMBLE*MU9234 (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

HONORS CREDIT

- Available in year four of high school performance-based courses.
- Students will have contractual requirements to earn weighted credit.

Audition required

VOCAL MUSIC AND MUSIC THEORY

(Fees associated with most courses)

CHORUS 8

MU9271 (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 (Full Year)

- Explore more complex concepts in music theory and sight-singing
- Build on the foundation established in seventh grade chorus
- Combine with 8th grade Chorus for concerts and district assessments

Teacher Recommendation

CHORUS 1 "The Half-Notes"

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 "One Voice"

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.

Audition required

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: Women's Show Choir

MU9289G (1 credit)

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

Audition required

CHAMBER ENSEMBLE

MU9292 (1 credit)

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

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

THEATRE ARTS

All sections require mandatory performances in the fall and spring.

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)

- Continue to 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 or 10th

- 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 I

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 II

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

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 small engine, welding, carpentry or electricity.

SMALL ENGINE REPAIR

AG8082 (1 credit)

- Study of the operation, maintenance, and repair of small gasoline engines.
- Instructional topics include principles of operation of gasoline engines, tune-up and maintenance procedures, and disassembly and reassembly of a 4-cycle engine

AGRICULTURE FABRICATION AND EMERGING TECHNOLOGIES - WELDING

AG8019 (1 credit) – 10th- 12th

- Instruction providing career training in the areas of agricultural fabrication and emerging technologies.
- Focus on hot and cold metal fabrication and will also include studies of emerging technologies utilized with the field of agriculture.

PLANT SYSTEMS

INTRODUCTION TO PLANT SYSTEMS

AG8007 (1 credit) - 9th or 10th

- 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

- 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 or 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.

ADDITIONAL OFFERINGS

AGRICULTURE BUSINESS FUNDAMENTALS CO-OP

AG8022 (1 credit) - 11th or 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, FINANCE, AND INFORMATION TECHNOLOGY

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

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.

BUSINESS

Offered in alternating years

ACCOUNTING

BT6320 (1 credit) - 10th - 12th grades

- 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. Students will utilize all Microsoft Office 2007 software applications to complete assignments on a daily basis

MARKETING

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.

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.

Offered alternating years

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.

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.

AP MICROECONOMICS/FINANCE

BT6162W (1/2 credit), BT6121 (1/2 credit)

- Offers finance in the first semester and AP Microeconomics in the second semester.
- Satisfies the online course requirement, the industry certification 2 requirement through the WISE Financial Literacy Test, and rigorous preparation for the AP exam.

INFORMATION TECHNOLOGY

COMPUTER INFORMATION SYSTEMS/ADVANCED CIS

BT6614 (1/2 credit), BT6615 (1/2 credit)

- 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.

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

DESIGN, MULTIMEDIA AND WEB TECHNOLOGIES

BT6630 (1 credit)

Middle or High School

- 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.
- Design portfolios.
- High school students will be responsible for producing the Yearbook during this course

DIGITAL VISUALIZATION

BT8459 (1 credit)

DMWT, Technical Drawing or Architectural Drawing

- 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.

ADVANCED DESIGN, MULTIMEDIA AND WEB TECHNOLOGIES

BT6631 (1 credit)

- Learn the industry-standard image editing software, Photoshop CS2 while completing a wide variety of real-world projects and having fun.
- Bring back to life those old, faded, 'drawer photos', create print projects for PHS, and receive a verified credit by passing the Industry Certification.
- Creation of an electronic portfolio and sophisticated websites.
- High school students will be responsible for producing the Yearbook during this course

GENERAL OFFERINGS

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.

EDUCATION FOR EMPLOYMENT – CO-OP

CE9078 (1 credit)

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

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.

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.

MEDICAL SYSTEMS ADMINISTRATION

BT6730 (1 Credit)

- 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.

CARPENTRY and ELECTRICITY

INTRODUCTION TO CONSTRUCTION TECHNOLOGY

CT8600 (1 credit)

- 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 1.

Lab Fee

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

CT8602 (2 credits) 12th grade

- Focuses upon manual drafting, reading blueprints and estimating the cost of materials, with projects including blue prints and job costs estimation.
- Upon completion of course, students may take (NCCER CORE) national certification testing.
- 12th grade students have opportunity to secure employment with Construction Contractor during second semester

ELECTRICITY 1

CT8533 (1 Credit) - 11th grade

Lab fee and OSHA 10 hour card fee

- Students will be introduced to residential electrical systems.
- Students will be introduced to current electrical codes and learn to navigate the National Electrical Code Book.
- Students will be introduced to blueprint reading and schematic transfers.
- Students will develop and practice wiring method skills in lab setting.
- Emphasis on safety electrical safety, lab safety, jobsite safety. All students will obtain the required OSHA 10 safety credential. All students will obtain the required OSHA 10 safety credential.

ELECTRICITY 2

CT8534 (2 Credits) - 12th grade

Lab fee

- Expand on their knowledge of residential electrical systems, blueprint reading and schematic transfers and National Electrical Code Book
- Introduction to commercial electrical systems, communication and power systems and work with conduit and raceways, panel boards, switchboards, grounding systems, generators, electrical theory and mathematical problems related to electricity.
- Practice wiring method skills in lab setting.
- Emphasize safety electrical safety, lab safety, jobsite safety.
- Upon completion of course, students may take (NCCER CORE) national certification testing.
- 12th grade students have opportunity to secure employment with Electrical Contractor during second semester.

COSMETOLOGY

COSMETOLOGY 1/2A

CO8527 (2credits) / CO8528-1 (1 credit) - 11th grade

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

Teacher recommendation

COSMETOLOGY 2B/3

CO8528-2 (1 credit), CO8529 (2 credits) - 12th grade

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.

CULINARY ARTS / HOSPITALITY & TOURISM

CULINARY ARTS 1

CA8250 (1 credit) 9th and 10th grades

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 2

CA8275 (1 credit) 10th - 11th grades

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.

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.
- 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

ENGINEERING

ENGINEERING EXPLORATIONS I

EG8450 (1 credit)

9th-12th grade

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

FAMILY AND CONSUMER SCIENCES / EDUCATION AND TRAINING

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.

LIFE PLANNING

FC8227 (1 credit)

- Develop an appreciation of the responsibilities in the future and the skills to survive on their own.
- Exploration of such areas as personal development, attitudes, dating, values, personal finance and money management, workplace readiness and job seeking skills.
- Instruction includes lectures, discussions, audiovisual presentations, guest speakers and hands-on projects.

LEADERSHIP DEVELOPMENT

FC9091 (1/2 credit)

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, power point presentations, lecture, video, community activism and group projects.
- Project-based activities through state and national FCCLA.

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.

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.

EARLY CHILDHOOD EDUCATION 1

FC8285 (2 credits)

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.
- Internship in a local elementary school classroom is required.
- Activities through student organizations FCCLA and FEA are required.
- Earn a 3-year pre-professional certification in Early Childhood Education through AAFCS.
- 280 hours total (140 hours online).

EARLY CHILDHOOD EDUCATION 2

FC8286 (2 credits)

FCCLA and Educators Rising fee

- Emphasis on occupational skills needed for working in the child care/early childhood education field.
- Internship with children at a local elementary school.
- Extensive preparation and implementation of creative activities for young children.
- Activities through student organizations FCCLA and FEA are required.
- Earn a 3-year pre-professional certification in Early Childhood Education through AAFCS.
- 280 hours total (140 hours online).

TEACHERS FOR TOMORROW 1

Dual Enrollment

DE9062W - Grades 11-12

(1 weighted credit, 4 college credits)

Tuition and Book Fee

FCCLA and Educators Rising 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.

TEACHERS FOR TOMORROW 2

FC9072 (1 credit)

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 earn a 3 -yr. pre-professional certification in Education Fundamentals through AAFCS.

FIREFIGHTING

FIREFIGHTING 1

FF8705 (2 credits)

High School, 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
- Contains labs in food preparation, garment construction and hands-on projects.

HEALTH AND MEDICAL SCIENCES

INTRODUCTION TO HEALTH AND MEDICAL SCIENCES

HO8302 (1 credit)

High School

- 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.

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

INTRODUCTION TO SPORTS MEDICINE / ATHLETIC TRAINING I

HO7660 (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 II

HO7662 (1 credit)

High School

- 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.

HEALTH ASSISTANT

HO8331 (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.

*Prerequisite: Intro to Health and Medical Sciences
Teacher recommendation*

JROTC

(fees associated with all courses)

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.
- Honors credit available for selected students.

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.
- Honors credit is available for selected cadets.

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.
- Honors credit available for selected students.

TECHNOLOGY

TECHNOLOGY FOUNDATIONS

TE8403 (1 credit)

Middle School

- Acquire a foundation through Design and Modeling, Automation and Robotics, Energy and the Environment, Magic of Electrons, and Green Architecture.
- Explore architecture, circuitry design, sustainable solutions to energy demands, and the influence of automation and robotics.
- Work with software applications to design and fabricate 3-D designs and replicas.

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.

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.
- This class would be scheduled for the 1st block of every school day.

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

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 +

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

TRANSITION LAB - MATH

SP7925 (1 credit)

11th grade +

- Students will generalize the 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

- Focus will be on 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 & DUAL ENROLLMENT

Online courses are offered for credit accrual or credit recovery. These courses are provided by Edgenuity and Virtual Virginia with a PHS teacher assigned to provide support. To enroll in an online class, interested students are **required** to complete the Online Orientation Module in Schoology prior to registering for an online class. A link to the page can be found on the School Counseling web page on the PHS website. For brief course descriptions of the online classes please see the Online Classes link on the School Counseling web page. PCPS will cover the initial tuition and fees for online courses listed below. *However, students who withdraw from an online course after 21 calendar days of the start date must pay the WITHDRAWAL FEE OF \$75.00 before a schedule change will be made.*

EDGENUITY

(1 credit or ½ credit*)

High School

Credit Recovery / Transfer Courses

Algebra I
 Algebra II
 Algebra Functions and Data Analysis
 Biology
 Biology II: Ecology
 Chemistry
 Earth Science
 Economics and Personal Finance
 English 9 -12
 Geometry
 Health 9/10
 Physical Education Grades 9/10
 Physics
 Virginia and U.S. Government
 Virginia and U.S. History
 World History & Geography to 1500
 World History & Geography 1500-Present

Elective Courses:

*Art History I
 Business and Marketing
 *Career Planning and Development
 Foundations of Personal Wellness
 *Healthy Living
 Information Tech Fundamentals
 *IDEA Writing
 *Introduction to Art
 Introduction to Business
 *Intro to Communication and Speech
 *Introduction to Entrepreneurship
 Introduction to Health Science
 * Lifetime Fitness
 Psychology
 *Sociology
 Strategies for Academic Success

VIRTUAL VIRGINIA

(1 credit or ½ credit)

Designed for credit accrual

WL50100N	Arabic 1, 2 & 3	(1 Credit)	WL53100N	Latin 1, 2, 3 & 4	(1 Credit)
WL58100N	Chinese 1, 2, 3 & 4	(1 Credit)	EL11650N	World Mythology	(1 Credit)

REYNOLDS COMMUNITY COLLEGE – GOOCHLAND CAMPUS

These courses are offered through Reynolds Community College during the regular school day. School transportation is provided from PHS for courses at the college campus. These are college level courses and students are expected to act responsibly and with maturity. 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.

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.

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.

- 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.

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

ADVANCE COLLEGE ACADEMY (ACA) –RCC / 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.

For 9th graders entering after 2014 (Class of 2019 and beyond)

GRADE 9	GRADE 10	SUMMER SESSION	GRADE 11	GRADE 12
Honors English 9*	Honors English 10*	Student Development 100	English 111 and English 112	English 243 and English 242
Honors Biology	Honors Chemistry, Honors Physics, or AP Environmental Science	Health 115*	AP or Honors Chemistry, Honors Physics or AP Environmental Science	Biology 101 and Biology 102
Honors Geometry or Honors Algebra II	Honors Algebra II or Honors Math Analysis		Honors Math Analysis and Math 166	AP Calculus and Math 270
AP Human Geography*	AP World History*		History 121 and History 122	Political Science 211 and Political Science 212
World Language	World Language		World Language	Spanish 101 and Spanish 102
Health and Physical Education	Health and Physical Education		Art History 101 and Art History 102	Approved Reynolds Elective* (1 semester)
High School Elective	High School Elective		High School Elective	High School Elective

*ACA cohort classes **BOLD = College classes**

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

- Economics and Personal Finance is required for high school graduation. Students are encouraged to take this course prior to the end of 10th grade.
- Students who pass the college’s computer competency test will not have to enroll in ITE 115.
- The Approved Reynolds Humanities/Fine Arts Elective can be taken online during any semester (summer, fall, or spring) in the junior or senior year. Students may use a passing score (3 or above) on AP Human Geography or AP World History to fulfill this requirement.
- See ACA Handbook for further program information.

COLLEGE CONNECTION ACADEMY (CCA) - RCC / PHS (TBD)

COLLEGE CONNECTION ACADEMY (CCA)

(5 weighted credits)

(33 college credits)

TUITION & BOOKS FEE.

Prerequisite: 12th Grade, 3.0 overall GPA / 3.5 core GPA, English 11 Honors or AP English 11 recommended, Completed Application, Pass Placement Test or 500 on SAT Reading and Writing, and 520 on Math

- College Connection Academy students attend classes at RCC Goochland Campus each morning and PHS in the afternoons.
- Students must complete the entire year (both semesters) of classes to earn college credits and satisfy high school graduation requirements.

NOTE: CCA students must enroll in the entire program.

Course	Term Scheduled	Location	Delivery method	Credits	Faculty Provided by	Fulfill H.S. Requirement	H.S. Course Name
Seniors Only							
SDV 100	Summer	RCC	Online/In Person	1	RCC	NO	
CDL 01	Summer	RCC	Online	0	RCC	NO	
ENG 111	Fall	RCC	In Person	3	RCC	Yes	English 12
ENG 112	Spring	RCC	In Person	3	RCC	Yes	English 12
BIO 101	Fall	RCC	Lecture Online, Lab in person	4	RCC	Yes	Biology
BIO 102	Spring	RCC	Lecture Online, Lab in person	4	RCC	Yes	Biology
MTH 163	Fall	RCC	In Person	3	RCC	Yes	Precalculus (or may take AP Calc/AP Stats at PHS)
PSY 200	Spring	RCC	In Person	3	RCC	Yes	Psychology or Elective
ART 101	Fall	RCC	In Person	3	RCC	No	Art
ART 102	Spring	RCC	In Person	3	RCC	No	Art
HIS 121	Fall	RCC	In Person	3	RCC	Yes	US History
HIS 122	Spring	RCC	In Person	3	RCC	Yes	US History

LONGWOOD UNIVERSITY

ECONOMICS AND PERSONAL FINANCE – Summer School Course

DE61200WSS

(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 cfr.longwood.edu/EPF

Course Dates / mid-June to mid-July

Mid-July / Mandatory examination day at Longwood University

TUITION Early Registration Prior to May 1 / After May 1

REGISTER AT: cfr.longwood.edu/EPF

SHENANDOAH UNIVERSITY AT PHS

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.

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 to keep busy. 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

NC9840E

Seniors Only.

Virginia State law requires that all students remain in school for a full day of scheduled classes. Therefore, this elective is available only to those **seniors** who have enough credits to graduate without carrying a full load of classes

- Have written parent permission on file.
- Have reliable transportation.

LATE ARRIVAL

NC9840L

Seniors Only.

The requirements for Late Arrival are the **same as for Early Release**. This a great option for athletes and those students that cannot leave early because of schedule conflicts.

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 a viable future. Students may be referred by school counseling, administration, teachers, parents or even themselves; however, they must meet certain guidelines. In addition, the student and parent must sign a contract agreeing to abide by the rules of the program.

Students needing support are enrolled in one or more of the programs below:

Bridge Program – EN1130, MA3130, and BT620ONBR – Designed to provide students support as they transition to high school, students in the Bridge Program are scheduled into smaller classes that are supported by a dedicated school counselor. The school counselor collaborates with classroom teachers in providing coaching related to academic success, social skills, and study skills. Students participate in extended career exploration and work to develop the skills necessary for success in high school.

Counseling – Small groups or individual supports focused on study skills, substance abuse prevention, organization, and career 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.

MIDDLE SCHOOL OPTIONS ENTERING 6TH GRADE

Middle School Social Studies Course-of-Study Options for Students Entering 6th Grade in 2016-2017

<p>Path 1</p> <p>This is the recommended sequence for most students. Students will receive a solid foundation in US history, civics, and economics, designed to prepare them for continued social studies coursework in high school.</p>	<p>Grade 6: US History I</p> <p>This course examines the history of the United States from pre-Columbian times until 1865.</p>	<p>Grade 7: US History II</p> <p>This course examines the history of the United States from Reconstruction era to the present.</p>	<p>Grade 8: Civics & Economics</p> <p>This course examines the roles citizens play in the political, governmental, and economic systems in the United States. At the end of this course, students will take a SOL test.</p>	
<p>Path 2</p> <p>This is a recommended sequence for students who are interested in social studies courses, but are not quite ready for accelerated coursework in 6th grade. This path provides the opportunity to arrive at the same point as Path 3 upon entering high school. During 8th grade, students will take BOTH Civics and Economics AND World History I.</p>	<p>Grade 6: US History I</p> <p>This course examines the history of the United States from pre-Columbian times until 1865.</p>	<p>Grade 7: US History II</p> <p>This course examines the history of the United States from Reconstruction era to the present.</p>	<p>Grade 8: Civics & Economics [REQUIRED]</p> <p>This course examines the roles citizens play in the political, governmental, and economic systems in the United States. At the end of the course, students will take a SOL test.</p>	<p>Grade 8: World History I [BECOMES AN ELECTIVE]</p> <p>Students who successfully complete this course and the End of Course World History I SOL test will earn a verified high school credit. The advantage to completion of World History I while in middle school is that it allows a student to complete an additional social studies course in high school without sacrificing an elective.</p>
<p>Path 3</p> <p>This is the recommended sequence for students who possess high ability in both English and social science courses. Students need to easily learn and retain information. This path is ideal for students interested in applying for the Advanced College Academy or in taking a variety of Advanced Placement courses in high school.</p>	<p>Grade 6: Integrated US History I</p> <p>This course integrates approximately 30% of 8th grade Civics & Economics content into US History I. The pace and amount of homework is more intense than the US History I course.</p>	<p>Grade 7: Integrated US History II</p> <p>This course integrates approximately 70% of 8th grade Civics & Economics content into US History II. The pace and amount of homework is more intense than the US History II course.</p>	<p>Grade 8: World History I</p> <p>Students who successfully complete this course and the End of Course World History I SOL test will earn a verified high school credit. The advantage to completion of World History I while in middle school is that it allows a student to complete an additional social studies course in high school without sacrificing an elective.</p>	

Middle and Junior High School Science Course-of-Study Options for Students Entering 6th Grade in 2015-2016

<p>Path 1</p> <p>This is the recommended course-of-study for most students. Students will receive a solid foundation in science, which will prepare them well for high school science coursework.</p>	<p>Grade 6 Course: 6th Grade Science</p> <p>Introductory course to life science, physical science and earth science</p>	<p>Grade 7 Course: Life Science</p> <p>Foundational course for high school biology.</p>	<p>Grade 8 Course: Physical Science</p> <p>Foundational course for high school chemistry and physics.</p>	
<p>Path 2</p> <p>This is a recommended course of study for students who are interested in science and STEM courses, but are not quite ready for accelerated coursework in 6th grade. Students may take BOTH Physical Science AND Earth Science during 8th grade.</p>	<p>Grade 6 Course: 6th Grade Science</p> <p>Introductory course to life science, physical science and earth science</p>	<p>Grade 7 Course: Life Science</p> <p>Foundational course for high school biology.</p>	<p>Grade 8 Course: Physical Science</p> <p>Foundational course for high school chemistry and physics.</p>	<p>Grade 8 Course: Earth Science</p> <p>Students who successfully complete this course and the End-of-course Earth Science SOL will earn a verified high school credit. The advantage to completion of earth science while in junior high school is that it allows a student to complete an additional science or STEM course while in high school without sacrificing an elective.</p>
<p>Path 3</p> <p>This is the recommended course-of-study for students who possess high ability in both reading and math. It is recommended that students be on the path to take Algebra I or higher by the time they reach 8th grade. Students need to learn and retain information easily. Students in Path 3 will be required to complete a long-term research project each year.</p>	<p>Grade 6 Course: Integrated Science I</p> <p>This course integrates half of the 6th grade curriculum into a life science course. The pace and amount of homework is more intense than 6th Grade Science.</p>	<p>Grade 7 Course: Integrated Science II</p> <p>This course integrates half of the 6th grade curriculum into a physical science course. The pace and amount of homework is more intense than Life Science.</p>	<p>Grade 8 Course: Earth Science</p> <p>Students who successfully complete this course and the End-of-course Earth Science SOL will earn a verified high school credit. The advantage to completion of earth science while in junior high school is that it allows a student to complete an additional science or STEM course while in high school without sacrificing an elective.</p>	

SCHOOL BOARD APPROVED COURSES NOT CURRENTLY OFFERED

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 art background.

Teacher recommendation

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

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.
-

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.
-

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.
-

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.
-

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.

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.

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.

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

BRIDGE ENGLISH 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

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.

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.

NAIL TECHNOLOGY

CO8692 (1 credit) - 10th - 12th grade

Lab fees and State Board fee

Students learn to manicure, pedicure, install and maintain artificial nails, and apply concepts associated with bacteriology, sanitation, nail disorders,

- 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.
- This course requires 540 hours divided into two semesters.

FOUNDATIONS OF AGRICULTURE, FOOD, AND NATURAL RESOURCES

AG8006 (1 credit)

Middle School

- Introduction to the field of agriculture and serves as a prerequisite for more advanced courses in agriculture.
 - Major units of instruction will include: plant science, animal science, food science and safety, natural resource conservation, and careers in the agricultural industry.
 - Introduction to the safe use of hand tools for woodworking and basic arc welding skills in a laboratory setting.
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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.
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PHOTOJOURNALISM

EL1215 (1 credit)

- Work cooperatively with the adviser to produce the school yearbook.
 - Assume responsibility of all aspects of production, fundraising, cover design, page creation, photography, interviews and distribution.
 - Utilize Adobe InDesign software.
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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 techniques.
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