

# Program of Studies

## 2023-2024

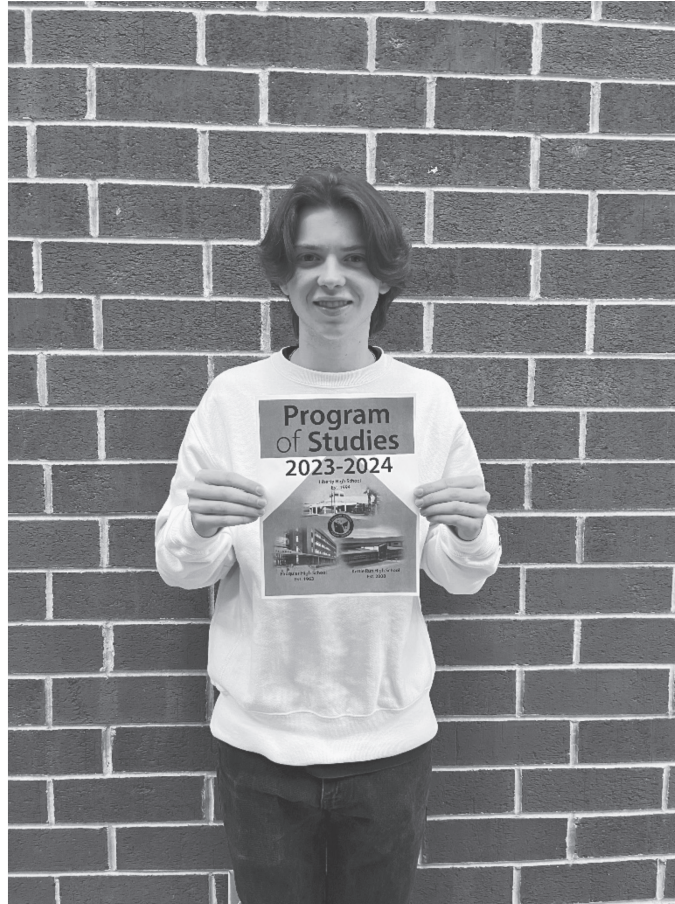
Liberty High School  
Est. 1994



Fauquier High School  
Est. 1963



Kettle Run High School  
Est. 2008



The cover for the Program of Studies for 2023-2024  
was designed by Carter Herring,  
a Graphic Imaging student at Kettle Run High School.

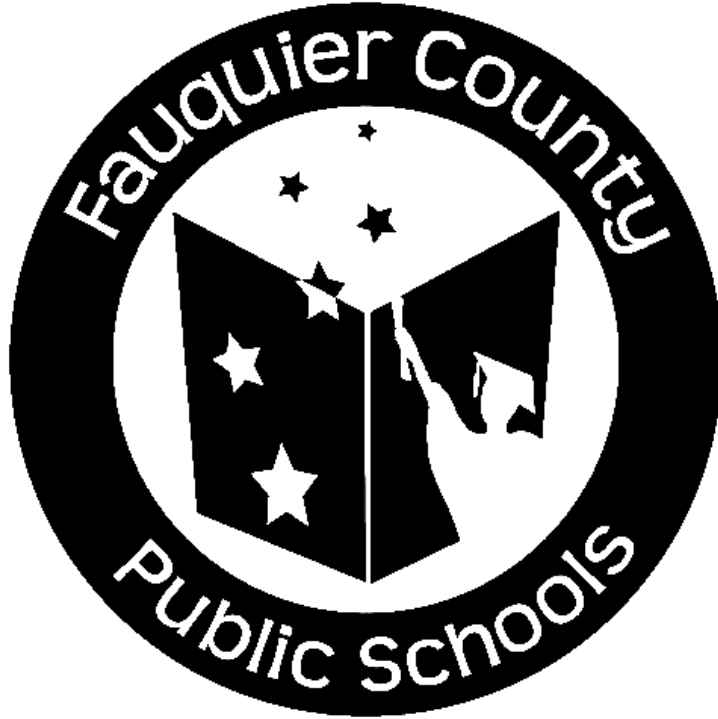
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## **Mission Statement**

**Fauquier County Public Schools, an innovative learning community, is committed to developing creative, confident, and knowledgeable citizens who are globally-competitive by cultivating the potential of each learner.**

*Fauquier County high schools are accredited by the Southern Association of Colleges and Schools, the Virginia State Board of Education, and the Virginia Department of Education.*



**To Our Students**

The information in this *Program of Studies* will assist you in planning your high school course of study. We strongly encourage you to read through this publication prior to course registration and to consult with your family, school counselor, and teachers in planning your high school academic program. *The Academic and Career Planning Guide* in this *Program of Studies* can be used to project an academic program for the remainder of your high school years.

**Planning for Your Future**

Your plan will include courses that meet the graduation requirements of Fauquier County Public Schools and prepare you to meet your educational and career goals. Your school counselor can assist you in determining your interests, needs, and special talents. Your school counselor also has up-to-date information about educational opportunities at various universities, two-year and four-year colleges, as well as trade, technical, and business schools. The Counseling Office can also provide you with information about military, career, and employment possibilities.

In selecting courses, please be aware that employment and college admission opportunities are highly competitive. The rigor of the subjects studied and the quality of academic performance are crucial factors in decisions made by employers and college admission personnel. All students planning to continue their education beyond high school should recognize that educational institutions differ in their requirements for admission. However, surveys of a cross-section of Virginia colleges reveal that the rigor of the student's high school academic program is the most important criterion in the admissions decision. Highly competitive universities will expect to see on your transcript courses that have an Honors, Advanced Placement (AP), or Dual Enrollment (DE) designation. These courses are available in English, World Languages, Mathematics, History and Social Science, Science, and Art.

Students wishing to augment their college preparation with skills in the practical arts, to enter the workplace in highly competitive career areas or enter a technical discipline in higher education are encouraged to seek Career and Technical Education certifications and credentials. These certifications and credentials require that you take a state board-approved certification or licensing examination and earn a particular score. Please refer to the Career and Technical Education Section of this *Program of Studies* for a complete list of these certifications and credentials.

As students decide which diploma they will work towards, they should realize that the type of diploma, by itself, does not determine their higher education and future career plans. Students may go to a four-year college, a community college, or a technical school with any diploma type, as long as they meet the entrance requirements of the school they wish to enter. Students may also find jobs immediately after graduation from high school if they have acquired the necessary skills, regardless of the type of diploma they receive.

**Organization of the Program of Studies**

The *Program of Studies* is divided into two sections. The first section includes general information about graduation and diploma requirements and other policies that may affect choices you make. We urge you and your family to read through this information carefully to avoid possible misunderstandings or missed deadlines. The second section consists of a description of each course offered by Fauquier County high schools.

## In Brief: Profile of a Virginia Graduate

Virginia's revised graduation requirements maintain high expectations for learning in English, Math, Science and History and Social Science while reducing the number of Standards of Learning (SOL) tests students must pass to earn a high school diploma. The new standards also implement the "Profile of a Virginia Graduate," which describes the knowledge, skills, attributes and experiences identified by employers, a higher education and the state Board of Education as critical for future success.

### Profile of a Virginia Graduate

A student meeting the Profile of a Virginia Graduate has achieved the Commonwealth's high academic standards and graduates with workplace skills, a sense of community and civic responsibility and a career plan aligned with the student's interests and experiences.

### The Five Cs

In preparing students to meet the Profile of a Virginia Graduate, schools are required to ensure that students develop the following competencies known as the "Five Cs":

- Critical Thinking
- Creative Thinking
- Communication
- Collaboration
- Citizenship

For more information, please visit

<https://doe.virginia.gov/instruction/graduation/profile-grad/>

The career-planning component of the Profile of a Virginia Graduate provides an opportunity for students to learn more about the employment options and career paths they first explored in elementary and middle school.

While there is no specific career-related activity that a student must experience (such as an internship or job-shadowing assignment) to earn a diploma, school divisions must provide opportunities for students to learn about workplace expectations and career options in their own communities and elsewhere.

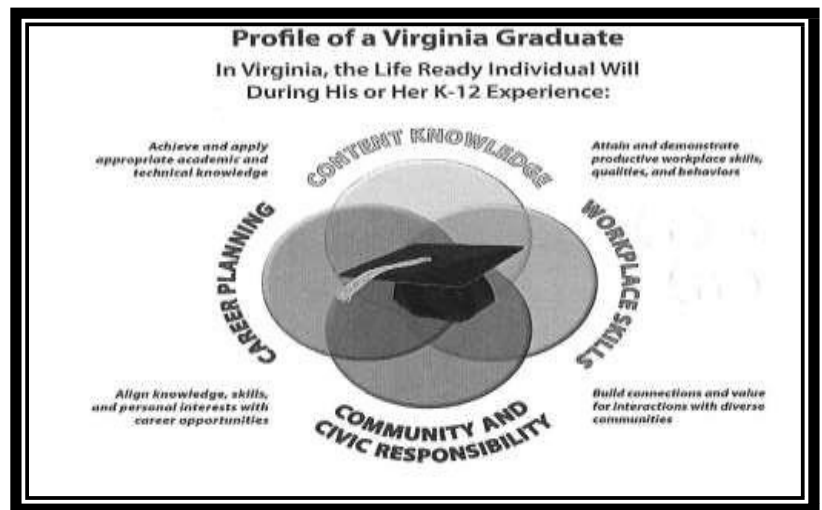
By reducing the number of SOL tests students must pass to earn a diploma, the new standards increase flexibility for schools to expand work-based and service-learning programs that promote college, career and civic readiness.

### Standards and Verified Credits

The new graduation requirements are effective with students entering the ninth grade in the fall of 2018 and beyond (classes of 2024, 2025, 2026 and 2027).

The number of standard credits for a Standard Diploma and Advanced Studies Diploma remain the same but the number of required verified credits – earned by passing a course in the content area and the associated end-of-course assessment – is reduced to five (one each in English Reading, English Writing, Mathematics, Science and History and Social Science) for both diplomas.

At high school, there are opportunities for a student to be able to verify credit and demonstrate course mastery through a locally developed performance-based assessment, particularly in History and Social Science. Performance assessments require students to apply what they have learned and provide an opportunity for students to demonstrate that they have acquired critical thinking, creative thinking, communication, collaboration and citizenship skills.



**Virginia High School Graduation  
Requirements for the Standard Diploma**  
*Students Entering 9<sup>th</sup> Grade in 2018-2019 and Beyond*

<b>Required Courses</b>	<b>Standard Units of Credit</b>	<b>Verified Units of Credit</b>
<b>English – 9, 10, 11, and 12</b>	4	2
<b>Mathematics</b> – Courses completed to satisfy this requirement shall include <b>at least two different</b> course selections from among: Algebra I, Geometry, AFDA, Algebra II, or other mathematics courses approved by the board to satisfy this requirement. AP Computer Science A is an approved computer science course that a student may use to earn a math credit.	3	1
<b>Science</b> – Courses completed to satisfy this requirement shall include course selection from <b>at least two different science</b> disciplines: Earth science, Biology, Chemistry, or Physics. AP Computer Science A is an approved computer science course that students may use to earn a third science credit.	3	1
<b>History and Social Sciences</b> – Courses completed to satisfy this requirement shall include World History and Geography to 1500, World History and Geography 1500 to present, Virginia and U.S. History, and Virginia and U.S. Government.	4	1
<b>Health and Physical Education 9 and Health and Physical Education 10</b> Health and PE 9 also incorporates First Aid, CPR and AED Training.	2	0
<b>World Language, Fine Arts or Career and Technical Education</b> – Credits earned for this requirement shall include one credit in fine or performing arts or career and technical education.	2	0
<b>Economics and Personal Finance</b> – This course also meets the requirement for a virtual course with integrated online units. Students will take the W!se exam.	1	0
<b>Electives</b> – Courses to satisfy this requirement shall include at least two sequential electives.	3	0
<b>Total Credits Required</b>	22	5

### Additional Requirements for Graduation

- **AP, Honors, Dual Enrollment, Work-Based Learning, or CTE Credential** - Students shall (i) complete an Advanced Placement, Honors, or Dual Enrollment course; or (ii) complete a high-quality work-based learning experience, as established by Board guidance on work-based learning; or (iii) earn a career and technical education credential approved by the board which could include the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia workplace readiness assessment.
- **First Aid, CPR, and AED Training** - Students shall be trained in emergency first aid, cardiopulmonary resuscitation (CPR), and the use of automated external defibrillators (AED), including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation. Students with an IEP or 504 Plan that documents that they cannot successfully complete this training shall be granted a waiver from this graduation requirement.
- **Demonstration of the 5 Cs** - In accordance with the Profile of a Virginia Graduate, students shall acquire and demonstrate foundational skills in Virginia's 5 Cs: **critical thinking, creative thinking, collaboration, communication, and citizenship.**

For full explanations of these requirements, please visit  
<https://doe.virginia.gov/instruction/graduation/index.shtml>

**High School Graduation Requirements for the  
Advanced Studies Diploma**  
*Students Entering 9<sup>th</sup> Grade in 2018-2019 and Beyond*

<b>Required Courses</b>	<b>Standard Units of Credit</b>	<b>Verified Units of Credit</b>
<b>English – 9, 10, 11, and 12</b>	4	2
<b>Mathematics</b> – Courses completed to satisfy this requirement shall include <b>at least three different course</b> selections from among: Algebra I, Geometry, Algebra II, or other mathematics courses <b>above the level</b> of Algebra II. AP Computer Science A is an approved computer science course that a student may use to earn a math credit.	4	1
<b>Science</b> – Courses completed to satisfy this requirement shall include course selections from <b>at least three different science disciplines</b> from among: Earth science, Biology, Chemistry, or Physics. AP Computer Science A is an approved computer science course that students may use to earn a fourth science credit.	4	1
<b>History and Social Sciences</b> – Courses completed to satisfy this requirement shall include World History and Geography to 1500, World History and Geography 1500 to present, Virginia and U.S. History, and Virginia and U.S. Government.	4	1
<b>World Language</b> – Courses completed to satisfy this requirement shall include three years of one language or two years of two languages.	3 or 4	0
<b>Health and Physical Education 9 and Health and Physical Education 10</b> Health and PE 9 also incorporates First Aid, CPR and AED Training.	2	0
<b>Fine Arts or Career and Technical Education</b>	1	0
<b>Economics and Personal Finance</b>	1	0
<b>Electives</b> – Courses to satisfy this requirement shall include at least two sequential electives.	3 or 2	0
<b>Total Credits Required</b>	26	5

### Additional Requirements for Graduation

- **AP, Honors, Dual Enrollment, Work-Based Learning, or CTE Credential** - Students shall (i) complete an Advanced Placement, Honors, or Dual Enrollment course; or (ii) complete a high-quality work-based learning experience, as established by Board guidance on work-based learning; or (iii) earn a career and technical education credential approved by the board which could include the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia workplace readiness assessment.
- **First Aid, CPR, and AED Training** - Students shall be trained in emergency first aid, cardiopulmonary resuscitation (CPR), and the use of automated external defibrillators (AED), including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation. Students with an IEP or 504 Plan that documents that they cannot successfully complete this training shall be granted a waiver from this graduation requirement.
- **Demonstration of the 5 Cs** - In accordance with the Profile of a Virginia Graduate, students shall acquire and demonstrate foundational skills in Virginia's 5 Cs: **critical thinking, creative thinking, collaboration, communication, and citizenship.**

For full explanations of these requirements, please visit  
<https://doe.virginia.gov/instruction/graduation/index.shtml>

### **Standard Diploma Credit Accommodations**

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

Credit accommodations for students with disabilities may include:

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

### **Advanced Studies Diploma Credit Accommodations**

There is one credit accommodation available for the advanced studies diploma. This alternative for students to meet the world language requirement is available to students with an individualized education program (IEP) that specifies a credit accommodation for world languages which permits a student who is pursuing an Advanced Studies Diploma and whose individualized education program specifies a credit accommodation for world language to substitute two standard units of credit in computer science for two standard units of credit in a world language. For any student that elects to substitute a credit in computer science for credit in world language, his or her school counselor must provide notice to the student and parent or guardian of possible impacts related to college entrance requirements.

## **OTHER DIPLOMAS & CERTIFICATES**

### **Applied Studies Diploma**

The Applied Studies Diploma is a diploma option available to students identified as having a disability who complete the requirements of their individualized education programs (IEPs) and meet certain requirements prescribed by the Board of Education pursuant to regulations, but do not meet the requirements for any named diploma.

### **General Education Development Certificates (GED)**

This certificate is available to students who are at least one year behind in high school credits and wish to earn a high school equivalency credential. Students who qualify can enter the Individual Student Alternative Education Plan Program (ISAEP) and receive the GED certificate awarded through The Virginia Department of Education.

### **Certificate of Program Completion**

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

## CREDIT ACCOMMODATIONS AT A GLANCE

Accommodation	Available to All Students	Students with a Documented Disability who Qualify for Credit Accommodations for students with an IEP/504-Standard Diploma
<b>Expanded Score Range for Expedited Retake</b>	Not Applicable	Students with a scaled score between 350-374 are eligible for an expedited retake on that test with the exception of English Writing. No expedited retakes are available in English Writing.
<b>Expanded Use of Locally-awarded Verified Credit (LVC)</b>	<p>Mathematics, English Reading and Writing, Science and History/Social Sciences:</p> <p>Students entering the ninth grade for the first time in the 2018-2019 school year and beyond are limited to one LAVC in any subject that may be applied toward a Standard or Advanced Studies Diploma.</p>	<p>Students eligible for credit accommodations shall <b>not</b> be subject to the limitations on the number of verified credits that may be awarded through this process.</p> <ul style="list-style-type: none"> <li>Students entering the ninth grade for the first time in 2018-2019 and beyond that require <b>more than one LVC</b> must have the eligibility criteria for credit accommodations properly documented in the IEP or 504 Plan.</li> </ul> <p><b>Special Permission Locally-Awarded Verified Credit Accommodation (SPLAVC-A):</b> Participate in subject/course related SOL- non-modified curriculum, test and score below 375; meet requirements stated in the Eligibility Criteria Request for Review; and follow local school division's LVC appeal process.</p>
<b>Courses Taught in Two Parts</b>	One Elective Credit and One Standard Credit	Two standard credits for <u>first sequence</u> in a content area*
<b>Economics and Personal Finance</b>	Economics and Personal Finance (6120)	<p>Personal Living and Finance (3120) substitutes for Economics and Personal Finance (6120) **</p> <p>(must also have earned 3 credits in History and Social Science)</p>

\* Example: Algebra I Part 1 = 1 standard credit; Algebra I Part 2 = 1 standard credit  
 Geometry I Part 1 = 1 elective credit; Geometry I Part 2 = 1 standard credit

\*\* Students with disabilities are encouraged to consider 6120 before considering 3120



## **VIRGINIA STANDARDS OF LEARNING REQUIREMENTS**

Students must earn a combination of standard and verified units of credit to receive a Standard or an Advanced Studies Diploma. There have been several changes to the diploma requirements over the last four years. Diploma requirements are effective with the year in which the student enters ninth grade for the first time, rather than the year in which the student graduates from high school. Additional credit accommodations for students with Individualized Education Programs (IEP) or 504 plans are available if determined the student meets state criteria.

### **Standard Credit**

A standard unit of credit is earned by taking a high school course of approximately 140 clock hours of instruction and meeting the objectives of the course with a passing grade.

### **Verified Credit**

A verified unit of credit is awarded for a course in which the student earns a standard unit of credit and achieves a passing score on a corresponding End-of-Course (EOC) Standards of Learning (SOL) test or a substitute test approved by the Virginia Board of Education. A list of substitute tests is available in the school Counseling Department. Students and their families should be aware of the risks in using substitute tests. If a student delays taking an SOL test in order to receive a passing score on the substitute test, graduation may be delayed.

### **Locally Verified Credit (LVC)**

**The criteria for the award of locally-awarded verified credit is summarized below:**

- To qualify for locally-awarded verified credits, a student must:
  - Pass the high school course;
  - Score within a 375-399 scale score range on any administration of the Standards of Learning test after taking the test at least twice and;
  - Demonstrate achievement in the academic content through an appeal process administered at the local level.
- For students entering the ninth grade for the first time in the 2018-2019 academic year and beyond:
  - No more than one locally-awarded verified credit may be awarded.
  - Locally-awarded verified credits can be applied toward either a Standard or Advanced Studies diploma.
- Students with credit accommodations are not subject to the limit on the number of locally-awarded verified credits.
- During 2019-2020 and 2020-2021, the Virginia Department of Education provided some additional waivers during the Covid-19 pandemic. Your school counselor can explain if any of these apply to you as needed.

## Standards of Learning Tests and Assessments

Standards of Learning (SOL) tests and assessments are given in the areas of English, Mathematics, Science, and History and Social Science. The Algebra I and Geometry SOL tests are administered both in middle school and high school. They are indicated by **SOL** in the course descriptions. Once required verified credits are earned for a content area, a student will not take additional associated SOL tests unless federally mandated for accountability.

SOL Tests and Assessments			
English	Mathematics	Science	History & Social Science
English: Reading (Grade 11)	Algebra I	Earth Science	World History & Geography to 1500 (World History I)
English: Writing (Grade 11)	Geometry	Biology	World History & Geography: 1500 to the Present (World History II)
	Algebra II	Chemistry	Virginia & United States History

## Standards of Learning and Verified Credits Requirements for Transfer Students

Students transferring to a Fauquier County high school from a non-public school, a public school outside of Virginia, or a home school are required to take SOL tests to earn verified units of credit. Transfer students should see their school counselor to determine the number of verified credits needed. More information can be found at the following link -

[http://www.doe.virginia.gov/instruction/graduation/student\\_transfers.shtml](http://www.doe.virginia.gov/instruction/graduation/student_transfers.shtml)

## Use of Performance Assessment for Locally Awarded Verified Credits

Fauquier County Public Schools is participating in the Virginia Department of Education's Performance Assessment Program for Locally-Awarded Verified Credits. In accordance with VDOE regulations, a high school student must earn a verified credit within one of the following History and Social Sciences courses: World History I, World History II, or VA/US History. As an alternative to the SOL testing for History and Social Sciences courses, FCPS students will be locally evaluated using state-developed performance tasks for their SOL assessment. The tasks consist of instructor-led formative assessments which provide students content, context, and understanding of a concept, and a summative assessment which provides the students an opportunity to prove their knowledge of the concept. Using VDOE developed rubrics, FCPS instructors evaluate student performance. A division-wide panel of HSS educators review the performance assessments and the student's course mastery to award the locally-awarded verified credits.

The criteria for locally-awarded credit for Performance Assessment is summarized below:

To qualify for locally-award credit through the Performance Assessment, a student must

- Pass the high school course;
- Complete the Performance Tasks one of the HSS courses and demonstrate understanding as scored by teachers on the state rubric:
  - World History I: three of four performance tasks
  - World History II: two of three performance tasks
  - VA/US History: three of four performance tasks
- Have their performance assessments and course mastery verified by a division-wide panel of FCPS educators.

## HIGH SCHOOL COURSES TAKEN IN MIDDLE SCHOOL

High school courses taken in middle school will count toward meeting high school diploma requirements. Students who successfully complete French I, Spanish I, Algebra I, and/or Geometry in middle school will receive credit toward a high school diploma. A verified credit can be earned in Algebra I and Geometry by successfully completing the course and receiving a passing grade on the corresponding EOC SOL test.

French I and Spanish I credits may be applied toward either the elective or World Language high school diploma requirements. Algebra I and Geometry credits may be applied to the high school diploma requirements for mathematics credits.

The grade and credit for high school courses taken in middle school **will appear on the high school transcript and will be included in high school grade point average calculations**. Occasionally, students may not demonstrate a desired degree of learning high school courses taken in middle school. In these cases, students along with their parent/guardian have the option of requesting that the course and the grade be removed from the transcript. However, when a credit-bearing grade is removed from the transcript, the high school credit is forfeited. Please keep in mind that the course will need to be repeated when it is a prerequisite for the next course a student may want to enroll in. To exercise this option a parent/guardian must request, in writing using the form provided by the school, that the credit-bearing course taken before entering high school be removed from the student's high school transcript. Students and their families are encouraged to contact the middle school Counseling Department for procedure and deadline requirements. **This process must be completed before student records are transferred to the high school.** Exceptions to this deadline may be granted (for extenuating circumstances only) up to the end of the 9<sup>th</sup> grade year, after which a student's transcript will not be altered relative to this regulation.

## BOARD OF EDUCATION DIPLOMA SEALS AND RECOGNITIONS

### Governor's Seal

The Governor's Seal is 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), International Baccalaureate (IB), Cambridge, or dual enrollment courses.

### Board of Education Seal

The Board of Education Seal is awarded to students who complete the requirements for a Standard Diploma or Advanced Studies Diploma with an average grade of "A" beginning with the ninth-grade class of 2006-2007 and beyond.

### Career and Technical Education Seal

The Board of Education's Career & Technical Education Seal is 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.

The Board of Education shall approve all professional licenses and examinations used to satisfy these requirements. See The Path to Industry Certification ([https://doe.virginia.gov/instruction/career\\_technical/path\\_industry\\_certification/index.shtml](https://doe.virginia.gov/instruction/career_technical/path_industry_certification/index.shtml)) for the current approved licenses and examinations.

### **Science, Technology, Engineering, and Mathematics (STEM) Seal**

The STEM Seal shall be awarded to students who earn either a Standard Diploma or an Advanced Studies Diploma and satisfy all Math and Science requirements for the Advanced Studies diploma with a “B” average or better in all course work, and

- successfully complete a 50 hour or more work-based learning opportunity in a STEM area, and;
- satisfy all requirements for a Career and Technical Education concentration (a concentration is a coherent sequence of two or more state-approved courses as identified in the course listing within the CTE Program Area Guide, and;
- pass one of the following:
  - a Board of Education CTE STEM-H credential examination, or;
  - an examination approved by the Board that confers a college-level credit in a STEM field.

### **Seal for Excellence in Civics Education**

The Seal for Excellence in Civics Education Seal is awarded to students who earn either a Standard Diploma or an Advanced Studies Diploma and meet each of the following criteria:

- Complete Virginia & United States History and Virginia & United States Government courses with a grade of "B" or higher.
- Have good attendance and no disciplinary infractions as determined by local school board policies.
- Complete 50 hours of voluntary participation in community service or extracurricular activities,
  - such as volunteering for a charitable or religious organization that provides services to the poor, sick or less fortunate; participating in Boy Scouts, Girl Scouts or similar youth organizations; participating in Junior Reserve Officer Training Corps (JROTC); participating in political campaigns, government internships, Boys State, Girls State or Model General Assembly; or participating in school-sponsored extracurricular activities that have a civics focus. Any student who enlists in the United States military prior to graduation will be deemed to have met this community service requirement.

### **Seal of Biliteracy**

The Seal of Biliteracy is awarded to students who earn a Board of Education-approved diploma and:

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

### **Seal for Excellence in Science and the Environment**

(available only to students who entered ninth grade in 2018-2019 or thereafter)

The Seal for Excellence in Science and the Environment is awarded to students who meet each of the following criteria:

- Earn either a Standard or Advanced Studies Diploma;
- Complete at least three different first-level board-approved laboratory science courses and at least one rigorous advanced-level or postsecondary-level laboratory science course, each with a grade of “B” or higher
- Complete laboratory or field-science research and present that research in a formal, juried setting
- Complete at least 50 hours of voluntary participation in community service or extracurricular
  - activities that involve the application of science such as environmental monitoring, protection, management, or restoration.

### **Governor's Senior Year Plus: Early College Scholars Program**

The Early College Scholars program allows eligible high school students to earn at least 15 hours of transferable college credit while completing the requirements for an Advanced Studies Diploma. The result is a more productive senior year and a substantial reduction in college tuition. Students earning a college degree in seven semesters instead of eight can save an average of \$5,000 in expenses. To qualify for the Early College Scholars Program, a student must:

- Have a "B" average or better;
- Be pursuing an Advanced Studies Diploma; and
- Take and complete college-level course work (i.e., Advanced Placement, International, Baccalaureate, Cambridge, or dual enrollment) that will earn at least 15 transferable college credits.

## **EARLY GRADUATION AND EARLY COMPLETION REQUIREMENTS**

Under certain circumstances, students may leave high school without completing four full years.

### **Early Graduation**

With parental permission, rising juniors (current sophomores) who have completed at least 14 credits may request permission for early graduation. Any student interested in pursuing the early graduation option must complete an application and submit letters to their school counselor from the student and the parent explaining why the student would like to graduate early. Once the principal approves the request, it is forwarded to the Superintendent of Schools, or designee, for approval. Applications are available in the Counseling Department at each high school. Applications are due by July 1. Students who miss this deadline for extenuating circumstances should contact their school counselor. Students interested in this option should keep in mind that they are required to meet the graduation requirements that are in effect in their ninth-grade year as opposed to those in effect during their anticipated year of graduation.

### **Early Completion**

With parental permission, rising seniors (current juniors) who will complete all graduation requirements by the end of the Fall term may request approval for early completion. Students who choose this option will not receive a final class rank since graduation requirements will be completed at the end of the Fall term. GPA will be computed on only six terms and will not qualify students for the same benefits as students who complete all eight terms. Any student interested in pursuing the early completion option must complete an application and submit letters to their school counselor from the student and the parent explaining why the student would like to complete school early. Applications are available in the Counseling Department at each high school. Applications are due by June 1. Graduation ceremonies take place once a year at the end of the Spring term. School activities for early completion students are limited to attending graduation and prom.

## **CUSTOMIZED HIGH SCHOOL PROGRAMS**

Fauquier County Public Schools offers high school students several opportunities to customize their program of studies and units of credits towards graduation.

### **Virtual Academy**

The Fauquier County Public School Virtual Academy is intended to function as an additional, separate K through 12th grade program. The Virtual Academy will give students the opportunity to take courses and earn credits virtually while still receiving instruction from knowledgeable and caring FCPS teachers. Virtual Academy students will continue to be enrolled in their designated base school and will be able to participate in athletics and activities at that school.

### **Southeastern Alternative Program**

The Project-Based Learning (PBL) Programs offered to students in grades 7-12 at Southeastern Alternative School are designed to offer a hands-on, interactive, project-based learning approach to instruction and assessment in all core academic areas required for promotion and graduation. These programs are designed to assist students in obtaining their high school diplomas from as early as 7<sup>th</sup> grade by offering a project-based learning approach to learning and testing. This approach to learning is significantly different but still adheres to the guidelines of the Virginia Standards of Learning. However, this difference makes school success more attainable for students who struggle with traditional teaching approaches and

the larger base school routines. Class sizes are extremely small with an average student to teacher ratio of 1:10. The PBL Programs are programs of *choice* requiring interested students and/or parents to apply and participate in an interview process. Each student's progress and achievement are reviewed quarterly.

### **STEM Academies**

Fauquier County Public Schools is proud to offer three unique high school academy programs providing students with hands-on experience in the fields of Cyber security, Environmental Science, or Integrated STEM. For more information: Please refer to the STEM Academies Section this Program of Studies.

### **Mountain Vista Governor's School**

Fauquier County high schools offer several courses and programs to serve the needs of its gifted students. In addition to honors and Advanced Placement (AP) courses, Mountain Vista Governor's School (MVGS) provides a learning option for identified gifted and highly able students. Mountain Vista Governor's School is an academic year Governor's School for Science, Mathematics, and Technology serving six area school divisions including Fauquier County for students in grades 10-12. The mission of Mountain Vista Governor's School is to present a research-based, technology-enhanced, integrated program in Mathematics, Science, and the Humanities. The program challenges students to reach their full potential as independent thinkers capable of assuming leadership roles in a constantly changing global society. Fauquier County students should contact their school Counseling Department for admission requirements and application procedures. Fauquier County students are required to take AP exams for any AP content-based courses taken at the Mountain Vista Governors' School. Grades earned in AP content-based courses receive an additional 1.0 weight only when the AP test is taken. Courses beyond the AP level (for which AP is a prerequisite) also receive a weight.

### **Cooperative Education**

A work component may be taken for one additional credit in certain Career and Technical Education courses. Students are required to work in an approved position for a minimum number of hours as specified by the requirements of the class. The work is supervised by the course teacher and may begin on July 1, continuing through the last day of the school year. Students should contact the teacher supervising the Co-op or COE program of interest for an application. Co-op and COE classes have course codes ending in 25. When this option is selected, students receive 1 credit for their supervised work in addition to the credit for the class.

### **Exception to the Full-Day**

Unless enrolled in a cooperative work-study program, high school students are expected to attend school for a full day. All exceptions to a full-day schedule must be approved on an individual basis by the Superintendent of Schools or designee. An application for an exception to the full day must be submitted by July 1. Students who miss this deadline due to extenuating circumstances should see their school counselor. Full-day schedules are in effect until the Superintendent of Schools or designee approves the exception.



**Homebound Instruction**

Homebound instruction is available for students who are confined at home or in a health care facility for periods that would prevent normal school attendance based upon certification of need by a licensed physician or licensed clinical psychologist. Typically, standard academic English, history, and mathematics courses are available through homebound instruction. Certain courses may not be available through homebound instruction, such as Physical Education, Lab Sciences, Career and Technology Education, World Language, advanced coursework, and coursework with a dual enrollment credit. Graduating seniors who need science or physical education credits may have additional options and should contact their Counseling Department for further details.

**Independent Study**

Seniors and juniors who have an interest in a course of study not offered in a Fauquier County public high school may apply to participate in an independent study program. Students must complete an application which requires a rationale statement from the student, an outline of the course from a teacher qualified to supervise the study, and approval from the school administration. Students must have a 90-minute block of time during the term to complete the coursework. Students receive a credit for Independent Study on a pass/fail basis. Students may obtain an application in the Counseling Department. An Independent Study program may also be prompted by a teacher for a temporary pilot.

**ACADEMIC SUPPORT PROGRAMS****Freshman Transition Program**

The goal of the Freshman Transition Program is to provide year-long academic support for selected freshmen in order to foster school success and a positive attitude. Classroom experiences emphasize language literacy, mathematical literacy, and strategies for high school success. Students who are enrolled in the program will receive writing and reading assistance as well as supplemental assistance in the core content areas. Instruction will focus on research strategies, field experiences, and career exploration. All grade-level Standards of Learning will be covered in the core content courses, and students will take the appropriate End-of-Course SOL assessments.

**Academic Coaching**

The goal of the academic coaching course is to teach students how to work strategically in multiple content areas. The course is recommended for students who need help scheduling and completing homework and class projects, and managing the demands of rigorous reading and homework assignments in standard and advanced academic classes.

**AP Potential**

The AP Potential program uses PSAT scores to identify students who have the ability to take more rigorous courses as part of their high school program. Once the College Board has identified these students, each student's schedule is examined. If identified students are not already taking at least two AP or Honors classes as sophomores, then the students are counseled to increase the rigor of their curriculum. Many factors contribute to a student's success in an AP class, but AP Potential identification indicates that with hard work and perseverance a student has the potential to do well in AP classes and later in college.

## SELECTING AND SCHEDULING COURSES

Fauquier County high schools follow a modified 4x4 block scheduling plan. In a standard 4x4 schedule, students take four 90-minute courses in the Fall term, and four 90-minute courses in the Spring term. Eight courses are taken in a year. Each term is divided into two 9 weeks. The Fall term is divided into marking period one and two and the Spring term is divided into marking period three and four. In a modified 4x4 schedule, some courses are scheduled for a full year (both terms) in addition to the block courses. Many of these full-year courses are offered on an A/B schedule where students attend class every other day, alternating attendance between two courses (course A and course B).

Standard 4X4 Schedule		
Block	Fall Term	Spring Term
Block 1	Course 1	Course 5
Block 2	Course 2	Course 6
Block 3	Course 3	Course 7
Block 4	Course 4	Course 8
Sample Modified 4X4 Schedule		
Block	Fall Term	Spring Term
Block 1	Course 1	Course 6
Block 2	Course 2	Course 7
Block 3	Course 3	Course 8
Block 4	Course 4 A days	Course 4 A days
	Course 5 B days	Course 5 B days

## COURSE SELECTION

### Access to Courses

Fauquier County Public Schools does not unlawfully discriminate on the basis of gender, race, color, religion, handicapping conditions, or national origin in employment or in its educational programs. No person shall be denied access to courses solely because of an impairment that is unrelated to the ability to engage in activities involved in the course or programs for which a selection has been made.

### Course Availability

Courses listed in this *Program of Studies* will be offered provided sufficient students request the classes and teachers and funds are available. If courses are cancelled, students will be registered in alternate courses as listed on their registration forms or determined by school personnel. Scheduling conflicts may result in students not being able to take their chosen courses. Information in this *Program of Studies* is subject to change pending state and local school board action.

### Course Selection Options

Course selection by students should be made in consultation with their families, teachers, and school counselors. Student interest, performance and teacher recommendations are a valuable part of this process. Course selection should relate to the student's strengths. For example, a student may have strengths in history but may need academic support in mathematics. These decisions should be made annually in an effort to give all students the most rigorous academic program. Students are encouraged to choose courses that will best fit their strengths, challenge them academically, and adequately prepare them for life, learning, and employment after high school.

## ADVANCED PLACEMENT (AP)

AP courses follow a rigorous national curriculum developed by the College Board and conclude with a required AP examination in May. AP courses are academically demanding and are the equivalent of courses offered at the college level. They require students to be able to manage an increased amount of work both inside and outside the classroom. AP classes prepare students for competitive four-year colleges and universities. All advanced placement curricula must go through a national curriculum audit and certification to carry the AP trademark. These courses will meet the academic needs of gifted learners and other students who wish to work at an advanced level. Students may be asked to prepare by completing pre-course assignments. These courses are designated with AP in the course title. Selected AP courses are also available for dual enrollment (DE) credit through Laurel Ridge Community College, Richard Bland College, James Madison University or other institutions of higher learning.

Based on their performance on the AP exam, students may earn college credit. Most colleges and universities have an AP policy granting incoming students' credit, placement, or both on the basis of their AP exam grades. Students should consult with the policies of the colleges and universities to which they are applying to determine how their AP credits will be evaluated.

Final grades for AP courses receive a 1.0 additional weight as long as the student completes the AP exam. Weighted cumulative GPAs appear on transcripts at the beginning of the fall term of the student's senior year and at the conclusion of the student's senior year.

Fauquier County Public Schools will pay the student registration fee for AP exams. Students who take an AP course but fail to take the AP exam will forfeit the weight on their high school transcript.

Advanced Placement Courses Offered by Fauquier County Public Schools		
Art History AP*	English Language & Composition AP	Seminar AP and Research AP
Biology AP	English Literature & Composition AP	Spanish Language AP
Calculus AB AP	Environmental Science AP	Spanish Literature AP
Calculus BC AP	French Language AP	Statistics AP
Chemistry AP	German Language AP	Studio Art AP
Comparative Government AP*	Human Geography AP*	United States Government AP
Computer Science A AP	Latin Vergil/Caesar AP	United States History AP
Computer Science Principles AP	Physics I AP and Physics II AP	World History: Modern AP
Economics AP*	Psychology AP	

\*Some classes may only be offered online due to low enrollment or staffing concerns

### Virtual Virginia Advanced Placement (AP)

Virtual Virginia offers online AP courses in English, Government, Calculus, Statistics, U.S. History, Chemistry, Biology, Spanish, Human Geography, Economics, Psychology, Physics, and more. FCPS students may only take Virtual Virginia Advanced Placement courses that are not offered or available to students at the high school they attend. Special situations will be considered on an individual basis.

## DUAL ENROLLMENT (DE)

The Virginia Plan for Dual Enrollment (DE) is offered in conjunction with Laurel Ridge Community College (LRCC), Richard Bland College, and James Madison University or other institutions of higher learning. Students will have the option of getting Dual Enrollment (DE) credit in conjunction with selected high school Advanced Placement and other courses offered in the high school buildings. The program enables students to earn both high school and college credit. Course offerings may be limited due to teacher availability. Dual Enrollment courses are designated with **DE** in the course description. Parents and students are strongly encouraged to check with their prospective colleges and universities to determine their acceptance protocols and transfer credit equivalencies for dual enrollment.

Dual Enrollment Courses Offered by Fauquier County Public Schools			
High School Course	High School Credit	Equivalent College Course(s)	College Credit
English 11: Language & Composition AP	1	English 111 & 112	6
English 12: Literature & Composition AP	1	English 211 & 215	6
World History: Modern AP	1	History 112	3
United States History AP	1	History 121 & 122	6
United States Government AP	1	Political Science 211 & 212	6
French IV	1	French 101, 102	8
French Language AP	1	French 201, 202	6
Spanish IV	1	Spanish 101, 102	8
Spanish Language AP	1	Spanish 201, 202	6
Latin IV	1	Latin 201	3
Latin AP Vergil/Caesar	1	Latin 202	3
Geospatial Science (JMU)	1	Geospatial Science	3
Statistics AP	1	Math 245	3

Students are eligible to participate in the Dual Enrollment (DE) program under the following conditions:

- Students must have a conference with their school Counseling Department prior to enrolling and obtain signed permission to participate in the program from their parent and school Counseling Department. Students must complete an application, and take placement tests in reading and writing and score within a passing range, or receive a 480 on the Verbal portion and a 530 on the Mathematics portion of the SAT. Certain LRCC Dual Enrollment (DE) courses have prerequisites, which must be met prior to enrollment.

For example, in order to enroll in ENG 211 & 215, a student must have passed ENG 111 & 112 with a C or better or have passed the AP Language and Composition exam with a score of 3 or better. For a complete explanation of course prerequisites, see the LRCC course descriptions: <https://catalog.laurelridge.edu/index.php?catoid=10> For each Dual Enrollment (DE) course taken with LRCC, students must pay a portion of the LRCC tuition. As of this printing, the LRCC tuition and fees are \$67.65 per credit and are subject to change for the following school year.

- With the exception of Latin IV, Latin AP, French IV, Spanish IV, French Language AP, Spanish Language AP, and Modern World AP, Dual Enrollment (DE) students take the equivalent of two college courses for 3 credits each. Students who receive a failing grade at midterm will receive an F for the first college course and will not be able to continue in the Dual Enrollment (DE) program. Students who are passing at midterm, but receive a failing grade at the end of the course will receive credit for the first college course, but will not receive credit for the second college course and may be in jeopardy of not graduating from high school.

LRCC and Fauquier County Public Schools are working together to expand opportunities that would enable students to complete an associate's degree or a general educational certificate concurrently with a high school diploma. Additional information is available through the high school Counseling Department.

## Honors Courses

These courses are designed to exceed standard requirements and prepare students for Advanced Placement course work, available primarily in the junior and senior year. These classes require extensive reading and writing. Advanced concepts are explored, and classes stress development of skills and practices used by professionals in the discipline. Projects that require extensive outside preparation and work are among the requirements for these classes. Honors classes prepare students for competitive four-year colleges and universities. These courses will meet the academic needs of gifted learners and other students who wish to work at an advanced level.

### Possible Course Sequence in Fauquier County High Schools High School for Advanced Students

	Math	Science	History & Social Science <sup>1</sup>	English <sup>2</sup>
<b>9<sup>th</sup> Grade</b>	Advanced Algebra II <sup>3</sup>	Honors Biology	Honors World History I	English 9 Honors
<b>10<sup>th</sup> Grade</b>	Math Analysis or AP Pre-Calc	Chemistry	World History AP/DE	English 10 Honors
<b>11<sup>th</sup> Grade</b>	AP Calculus or AP Calculus BC	AP Physics I	US History AP/DE	English 11: Language and Composition AP/DE
<b>12<sup>th</sup> Grade</b>	AP Calculus BC, AP Statistics, or Multivariable Calculus	Student Choice – any AP science or science elective	US Government AP/DE	English 12: Literature and Composition AP/DE

<sup>1</sup> Additional Advanced History and Social Science Electives may be taken over the 4 years. They include: AP Comparative Government, AP Human Geography (open to 9<sup>th</sup> graders), AP Psychology.

<sup>2</sup> Additional Advanced English Electives may be taken over the 4 years. They include AP Seminar (grades 10-11) and AP Research (grades 11-12)

AP or Honors Economics will fulfill the Economics and Personal Finance Graduation requirement and is usually taken in 10<sup>th</sup> or 11<sup>th</sup> grade

<sup>3</sup> If Geometry was not completed in 8<sup>th</sup> grade, students can double up in math with Geometry during the 1<sup>st</sup> semester and Advanced Algebra II during the 2<sup>nd</sup> semester

### Other Advanced Academic Courses Available (Course availability may vary year by year):

AP Computer Science Principles or AP Computer Science A

DE French Language IV, AP/DE French Language, AP German Language, DE Latin IV, AP/DE Latin Vergil/Caesar, AP/DE Spanish Language, AP Spanish Literature, DE American Sign Language II

AP Studio Art or AP Art History

## Standard Academic Courses

Courses in this category make up the majority of offerings in the high school program of studies. These classes will prepare students for four-year colleges, community college, vocational/technical schools, or for direct entry into the work force. In English, History and Social Science, Science, and Mathematics, the courses meet all Standards of Learning requirements to include independent reading of a variety of texts. Essays, narratives, research papers, and lab reports are among the writing expectations, and students are required to use higher-level critical thinking skills independently. World Language, Art, Music, Physical Education, and Career and Technical Education courses are also in this category. They are designed to broaden students' educational experiences to include knowledge and appreciation for healthy life choices, Fine Arts, Career and Technical Education and World Languages.

## Academic Support Courses

These courses are designed to offer academic support for students who require additional teacher guidance and adjustment in the pace of lessons. Students pursuing a Standard or Advanced Studies Diploma, seeking admission to a 2-year or 4-year college, and/or seeking admission to a NCAA collegiate athletic team, should limit these courses in their schedules, particularly during their junior and senior years.

### Courses Offered Only at Certain High Schools

Certain Career and Technical Education courses are only offered at one high school. However, students at all high schools are eligible to take these courses. Those students who wish to take one of these courses will be provided transportation to the school where the course is offered. Students will travel before school, during lunch, and/or after school. For those courses which take only one 90-minute block, students will need to enroll in another one-block course to facilitate the travel schedule.

Courses Offered Only at Certain High Schools		
Automotive Technology I-III (FHS)	English 10: Reading & Writing Across STEM Disciplines (KRHS)	Environment in Literature (FHS)
Auto Body Technology I-III (FHS)	Early Childhood Education & Services I, II, III (FHS)	Pharmacy Tech I & II (FHS)
Carpentry I & II (FHS)	Nurse Aide (FHS)	Electricity I-III (FHS)
Military Science 1-8 (AJROTC) (LHS)	Graphic Design III & IV (FHS)	

### Additional Virtual Courses

On a limited basis, students may take specialized courses not available in their high school, including AP courses, through a virtual high school program. Virtual courses are generally taken as part of the regular high school schedule. Guidelines and limitations, as well as a list of available courses, are available in the Counseling Department.

Under special circumstances, seniors and second-term juniors may request permission from their high school principal to take a virtual course outside the normal school schedule. Guidelines, requirements, and limitations are available in the Counseling Department.

\*Please note that students who are non-Early College Scholars will be expected to pay for Virtual Virginia Courses.

## GRADE LEVEL DETERMINATION

A student must meet the following minimum criteria to be classified in a high school grade:

Grade 9	Pass 4 of 5 required middle school courses: English, Mathematics, Science, History and Social Science, Health and Physical Education
Grade 10	Earned 6 credits
Grade 11	Earned a total of 12 credits
Grade 12	Earned a total of 17 credits. Fourth-year students with 14 or more appropriate credits who are candidates for graduation may be classified as seniors.

Students will be promoted to the next grade level at the end of the school year. There are no mid-year promotions.



## GRADING POLICIES

### Grading Scale

Fauquier County Public Schools uses letter grades on report cards and transcripts. The following grading scale equates the grade earned in a class to the equivalent letter grade and pointvalue:

Class Grade	Letter Grade	Quality Points
90-100	A	4.0
80-89	B	3.0
70-79	C	2.0
60-69	D	1.0
59 and below	F	0

### Grade Point Average

Grade Point Average (**GPA**) includes all courses for which students earned credits in grades 9-12 and any credit-bearing high school courses taken in middle school. GPA is obtained by dividing total grade points (quality points) by the number of courses taken. Official GPAs are calculated in the fall of the senior year and at the conclusion of the senior year.

### Weighted Grades

Courses which require a nationally recognized examination (such as an AP Exam) receive a 1.0 additional weight only if the student takes the test. Courses which have an AP course as a prerequisite are also weighted. Weighted cumulative GPAs appear on transcripts.

### Honor Roll

At the end of each term (Fall and Spring), FCPS students in grades 9-12 whose GPAs are 4.0 or above will be recognized on the 4.0 Honor Roll and students whose GPAs are 3.0 or above but below 4.0 will be recognized on the 3.0 Honor Roll. High school students must have no failing grades to qualify for Honor Roll recognition.

### Senior Class Standing

Academic standing is based on a weighted GPA and is reported to colleges in terms of deciles (top 10% is first decile, next 10% is second, etc.) at the beginning of the fall term of the senior year and at the end of the spring term, once final grades are posted.

### Recognition of Honor Graduates

Each high school will honor its highest performing graduates with a seal on their diploma once all final grades are calculated, as follows:

With Highest Distinction	4.00 or greater on a weighted scale
With High Distinction	3.75-3.99 on a weighted scale
With Distinction	3.50-3.74 on a weighted scale

**Credits and Grades for a Repeated Course**

Students who receive a D or above in a course and wish to repeat the course for the purpose of improving their learning or satisfying a course prerequisite may do so provided space is available. Both course attempts appear on the transcript, and the credit appears the first time the course is taken. The original course grade and the repeated course grade are both included in calculations for grade point average.

Students who fail a course in one term may be permitted to repeat that course the following term provided space is available in the second-term course. Seniors who fail a course necessary for graduation during the fall term are not guaranteed a position in that class for the spring term and may forfeit their opportunity to graduate on time. Repeated courses do not count as one of the courses required for VHSL sports eligibility.

**Home-School Grades and Credits**

Students who transfer to Fauquier County Public Schools from home schooling will receive credits for classes and grades on a Pass or Fail basis. These grades are not averaged in with the A-F grades on transcripts and are not calculated into the GPA or class rank.

**Incomplete Grades**

Teachers may assign "Incomplete" grades in instances where the required assignments have not been submitted due to unusual but excused circumstances. In such cases, the teacher shall assign a deadline for make-up of the work; however, the work must be completed by the end of the following grading period. Incomplete grades may not be carried over from one academic year to another.

**Schedule Changes**

Schedule changes are handled through the high school Counseling Department. To avoid the need to request a change in schedule, it is the responsibility of students to read the course information in the *Program of Studies* prior to registration, to ask their school counselor about any courses they do not fully understand, and to attend the elective information sessions held prior to registration. A parent/guardian is required to review and approve the change. Before school ends, students will receive a list of requested courses for the next academic school year. If a schedule change is necessary, students should make every effort to request the change before the end of the school year. Prior to school starting, schedules will be available on Infinite Campus. If a change is necessary, it must be made in accordance with school counseling deadlines. To request a change, students must fill out a schedule change form, which the parent/guardian is required to sign. If there is a scheduling conflict in courses requested, the Counseling Department will use the alternate courses the student selected during registration.

All scheduling conflicts or course changes should be completed before school begins. After school begins, changes will be denied except for academic reasons. The opening days of school are an extremely busy time; therefore, the opportunity for students to meet with counselors is limited. Teacher change requests will not be made without administrative approval.

**Dropping and Adding Classes**

Students may drop or add a course up to the first day of each term. After that time, any student who elects to drop a course will receive a W/F (withdraw failing), regardless of the performance in the class. The transcript will read W/F. The W/F notation will affect the student's GPA because the class dropped will be counted as a class taken and failed. Dropping an SOL-assessment course to enroll in the same course after the mid-term period is typically not permitted. Should the student or school counselor want to make such a change after the mid-term, the course change must be approved and signed by the principal. Students may be permitted to change from an AP or Honors course to a Standard Academic course during the first quarter, but only after consultation with the teacher, school counselor, and approval by the parent/guardian.

### **Withdrawing from a Course**

A student must complete the full course in order to earn credit. Therefore, no credit will be awarded to students who withdraw from a year-long course before completing both terms. In the four-year high school program, students are able to earn up to 32 credits, which is more than required for graduation. Students are encouraged to take advantage of the many opportunities to enroll in courses beyond the minimum graduation requirements in order to more fully prepare for further education and career.

## **ADDITIONAL POLICIES**

### **School Transfer Requests**

A transfer request for a student to attend a high school out of his or her zone will receive approval by the principal only for purposes outlined in the Fauquier County School Board Policy 7-2.2. Forms for requests will be available in the main office of each school (Form 7-2.2 (A) F1).

### **Summative Assessments/Exams**

Instructional staff are required to formally assess students twice each term. Teachers are encouraged to administer authentic summative assessments, where students actively demonstrate knowledge through presentations, projects, reports, portfolios, etc., ideally at the end of a unit, course, semester, program or school year. Typically, culminating course summative assessments or exams are offered for students at the middle and end of every term (October, December for Term 1, March, and May/June for Term 2. Students are encouraged to maintain consistent work habits in all classes throughout the length of the course so that when the grading period ends, the student's final grade is not contingent upon one summative assessment or exam grade. In the case of inclement weather, summative assessments/exams may be cancelled if a weather event requires that school is closed during the examination window. If summative assessments/exams are cancelled, students will receive the term grade earned to that point.

### **Fee Waivers**

Any fees associated with courses offered by Fauquier County Public Schools, such as musical instrument charges, uniforms, AP review guides and manuals, and the cost of art materials may be waived for qualified students. Partial fee waivers may also be available for qualified students who wish to take dual enrollment classes. Any fees associated with courses should not deter students from considering enrollment.

## **NCAA CERTIFICATION AND VHSL ELIGIBILITY**

### **Certification for College-Bound Athletes**

All prospective student athletes who intend to participate in collegiate Division I or II athletics must be certified by the NCAA Initial Eligibility Clearinghouse. NCAA guidelines are subject to change yearly. Students should plan to start the certification process at the end of their junior year. College-bound athletes are encouraged to take Honors, Dual Enrollment, and AP courses; however, all course levels will meet the NCAA guidelines for certification. For detailed information, students should see their school counselor and/or their coach.

An NCAA Division I or Division II membership school may not provide an expense-paid visit to a prospective student athlete and may not recruit in any way a student-athlete who has not submitted the following documents to the NCAA Initial Eligibility Clearinghouse: completed and signed student release form and fee, official transcript from every high school the student has attended, and ACT or SAT scores.

### **Eligibility for VHSL Activities**

To be eligible for any Virginia High School League (VHSL) sport or activity, students must meet the following requirements during the term they participate:

- The student must be enrolled in at least three subjects for credit.
- The student must have passed at least three subjects for credit the previous term.

*VHSL Eligibility continued:* If the student repeats a course to improve skills or to meet a grade prerequisite, passing the repeated course does not count as one of the courses required for eligibility. Students who transfer from one high school to another within Fauquier County will forfeit eligibility for 365 days unless the Superintendent grants a waiver of the transfer rule.

## RECOMMENDED TESTS FOR COLLEGE-BOUND STUDENTS

### Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT)

The PSAT/NMSQT is a standardized test that provides firsthand practice for the SAT. It is given to all 10<sup>th</sup> grade students in Fauquier County Public Schools at no cost to the student. The PSAT/NMSQT measures critical reading skills, math problem-solving skills, and writing skills, and provides important feedback on strengths and weaknesses on skills necessary for college study. Students in Grade 11 are urged to take the PSAT again, as only students who take the test in Grade 11 are identified for National Merit Scholarships. The PSAT also identifies students for the AP Potential Program.

### SAT TEST

Students in the 11th and 12th grades are encouraged to take the SAT Test which measures critical reading and mathematics. At minimum, a student should begin taking the test by the spring of the 11th grade and may repeat the test several times. Most colleges use the highest critical reading and mathematics scores obtained, even if the two sub-scores were earned on separate days. The SAT tests are given several times each year in Fauquier County. Students must register six weeks in advance of the test. Students may register on-line at [www.collegeboard.com](http://www.collegeboard.com). Free study and preparation materials are available at [www.collegeboard.com](http://www.collegeboard.com), [khanacademy.org](http://khanacademy.org) and from the School Counseling Office.

### ACT Test

The ACT is a standardized test for high school achievement and college admissions. The ACT consists of five tests: English, Mathematics, Reading, Science Reasoning, and an optional test in Writing. All four-year colleges and universities in the U.S. accept the ACT, but different institutions place different emphases on standardized tests such as the ACT compared to other factors of evaluation such as class rank, GPA, and extracurricular activities. The four main tests are scored individually on a scale of 1–36, and a Composite score is provided which is the whole number average of the four scores.

## STEM ACADEMIES

Fauquier County Public Schools is proud to host three unique academy programs to prepare students for STEM careers through hands-on experiences and industry certifications. Each program has a series of required courses students *must* complete along with a variety of recommended courses students can use to personalize their experience. All three academies have their own requirements for service, certifications, and participation. By meeting these requirements, students can earn medals, honor cords, certificates, and/or diploma seals at graduation.

The STEM Academies are:

Cyber Security Academy	Liberty High School
Environmental Studies Academy	Fauquier High School
iSTEM Academy	Kettle Run High School

Any rising 9th grader with an interest in any of these academies may apply. Students selected to attend an academy away from their base school will be provided transportation to travel before school, during lunch, and/or after school depending on academy and course schedules.

For more information about the STEM Academies (including the application process), please visit the Academy Programs page on the Fauquier County Public Schools website:

<https://bit.ly/fcps1academies>

## **CYBER SECURITY ACADEMY**

### **AT LIBERTY HIGH SCHOOL**

Key Elements of the Cyber Security Academy include:

- ☐ Cross-curricular courses with a cyber security emphasis;
- ☐ Access to dedicated lab space, co-curricular clubs, competitions, field experiences and guest speakers;
- ☐ Cyber security-related extracurricular and co-curricular community activities.

To earn the Cyber Security Academy Honors Medal, students must:

- ☐ Complete all required courses and maintain at least a 3.0 overall GPA;
- ☐ Complete 3 recommended courses;
- ☐ Earn 1 industry certification;
- ☐ Complete an approved cyber security internship, service project, or competitive event involving 30 hours of participation.

To earn the Cyber Security Academy Graduation Cords, students must:

- ☐ Complete all required courses and maintain at least a 2.5 overall GPA;
- ☐ Complete 2 recommended courses;
- ☐ Earn 1 industry certification;
- ☐ Complete an approved cyber security internship, service project, or competitive event involving 20 hours of participation.

To earn the Cyber Security Academy Certificate, students must:

- ☐ Complete all required courses and maintain at least a 2.0 overall GPA;
- ☐ Complete 1 recommended course;
- ☐ Earn 1 industry certification;
- ☐ Complete an approved cyber security internship, service project, or competitive event involving 10 hours of participation.

ALL Cyber Security Academy students must maintain a C average  
and be enrolled in at least one required class each year.

## Required Courses for the Cyber Security Academy:

### 9th Grade: Cyber Security Fundamentals (630205)

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

### 10th Grade: Computer Systems Technology 1 (862205)

Students enter the world of computer technology and gain practical experience in assembling a computer system. Students will install, configure, and secure various operating systems. Students will troubleshoot computers and peripherals and use system tools and diagnostic software. They develop skills in computer networking and resource sharing. In addition, students explore the relationships between internal and external computer components.

### 11th Grade: Cyber Security Software Operations (630405)

This course covers many aspects of computer support and network administration. Students learn networking concepts from usage to components, and create peer-to-peer network systems and client server networks. Students learn how to install and configure network cards and connect them to networks, install operating systems, create, set up, and manage accounts, load software, and establish, implement, and maintain network integrity security plans. *Upon successful completion of this course, students may qualify to take the CompTIA A+ certification exam.*

### 12th Grade: Academy Capstone (461065)

Students will demonstrate their knowledge and skills through completion of an independent project or relevant certification program of their choice.

## Recommended Courses for the Cyber Security Academy:

Business & Marketing	<ul style="list-style-type: none"> <li>Digital Applications/Keyboarding (661105)</li> <li>Computer Information Systems (661205)</li> <li>Advanced Computer Information Systems (661305)</li> </ul>
Mathematics	<ul style="list-style-type: none"> <li>AP Computer Science A (318538)</li> <li>AP Computer Science Principles (100198)</li> <li>Introduction to Computer Mathematics (318405)</li> </ul>
Military Science	<ul style="list-style-type: none"> <li>Army JROTC 1-8 (AR791305, AR791605, AR791805, AR791905, AR792005, AR792205, AR792405, AR792605)</li> </ul>
World Language	<ul style="list-style-type: none"> <li>Turkish 1-3 (599905, 599915, 599925)</li> <li>Arabic 1-4 (501005, 502005, 503005, 504095)</li> </ul>



## **ENVIRONMENTAL STUDIES ACADEMY**

### **AT FAUQUIER HIGH SCHOOL**

Key Elements of the Environmental Studies Program include:

- ☐ Cross-curricular courses with an environmental emphasis;
- ☐ Hands-on experiences at the Fauquier Outdoor Lab, FHS Greenhouse, and off-campus research facilities;
- ☐ Science-related extracurricular and co-curricular community activities.

To earn the Environmental Studies Academy Honors Medal and Board of Education Seal for Excellence in Science and the Environment, students must:

- ☐ complete all required courses and maintain at least a 3.0 overall GPA;
- ☐ complete 3 different introductory lab sciences with a final grade of B or higher;
- ☐ complete AP Environmental Science with a final grade of B or higher (unweighted);
- ☐ complete laboratory or field-science research to be presented in a formal, juried setting;
- ☐ complete a minimum of 50 total hours of voluntary community service or extracurricular activities that involve the application of science by graduation.  
(Examples: environmental monitoring, protection, management or restoration, writing scientific articles)

To earn the Environmental Studies Academy Graduation Cords, students must:

- ☐ complete all required courses and maintain at least a 2.5 overall GPA;
- ☐ complete 3 different introductory lab sciences with a final grade of C or higher;
- ☐ complete AP Environmental Science with a final grade of C or higher (unweighted);
- ☐ complete laboratory or field-science research to be presented in a formal, juried setting;
- ☐ complete a minimum of 30 total hours of voluntary community service or extracurricular activities that involve the application of science by graduation.

To earn the Environmental Studies Academy Certificate, students must:

- ☐ complete all required courses and maintain at least a 2.0 overall GPA;
- ☐ complete 3 different introductory lab sciences and earn a final grade of C or higher;
- ☐ complete AP Environmental Science with a final grade of C or higher (unweighted);
- ☐ complete laboratory or field-science research to be presented in a formal, juried setting;
- ☐ complete a minimum of 20 total hours of voluntary community service or extracurricular activities that involve the application of science by graduation.

ALL Environmental Studies Academy students must maintain a C average  
and be enrolled in at least one required class each year.

### Required Courses for the Environmental Studies Academy:

#### **9th Grade: Environmental Science (421055 for ESA) & Intro to Natural Resources (804015)**

Students will receive an introduction to environmental concepts including human impact on the environment, conservation, and the study of natural resources with their academy cohort.

#### **10th Grade: Biology (431005 for ESA) & Environment in Literature (114055)**

Students will learn basic principles of biological science and explore the natural world through hands-on activities and readings. Ecology, conservation, sustainability, and biotechnology are emphasized.

#### **11th Grade: Chemistry (441005 for ESA)**

Students will learn basic chemistry principles through an environmental science lens.

#### **11th/12th Grade: Environmental Science AP (427008)**

Students will reinforce and elevate their understanding of environmental science through the Advanced Placement Environmental Science curriculum:

#### **12th Grade: Academy Capstone (461065)**

Students will demonstrate their acquired knowledge and skills through completion of an independent scientific research project in the laboratory or in the field. Results will be presented in a formal, juried setting. *\*If students take AP Research (011058) and conduct scientific research in the lab or in the field, this experience may meet this requirement if approved by the academy director.*

### Recommended Courses for the Environmental Science Academy:

Science	<ul style="list-style-type: none"> <li>• Biology AP (437008)</li> <li>• Chemistry AP (447008)</li> <li>• Marine Biology (432017)</li> <li>• Anatomy &amp; Physiology (433005)</li> <li>• Physics (451005)</li> <li>• Physics I AP (457308)</li> <li>• Geology (424005)</li> <li>• Oceanography (425005)</li> </ul>
English	<ul style="list-style-type: none"> <li>• Journalism I (120005)</li> <li>• Media Literacy (106205)</li> <li>• AP Seminar (221108)</li> <li>• AP Research* (011058)</li> </ul>
CTE	<ul style="list-style-type: none"> <li>• Greenhouse Plant Production &amp; Management (803505)</li> <li>• Horticulture Sciences (803415)</li> <li>• Landscaping (803615)</li> <li>• Technical Drawing &amp; Design (843505)</li> </ul>
Math	<ul style="list-style-type: none"> <li>• Computer Science Principles AP (100198)</li> <li>• Probability &amp; Statistics (319005)</li> <li>• Statistics AP (319208)</li> </ul>
History & Social Sciences	<ul style="list-style-type: none"> <li>• Geospatial Science through JMU (295007)</li> <li>• Human Geography AP (221208)</li> </ul>

## **iSTEM ACADEMY AT KETTLE RUN HIGH SCHOOL**

Key Elements of the iSTEM Academy include:

- ☐ Cross-curricular courses with a STEM emphasis;
- ☐ Workplace readiness skills and certifications;
- ☐ Access to dedicated lab space, co-curricular clubs, field experiences, and guest speakers;
- ☐ STEM-related extracurricular and co-curricular community activities.

To earn the iSTEM Honors Medal, students must:

- ☐ complete all required courses and maintain at least a 3.0 overall GPA;
- ☐ complete at least 2 recommended courses;
- ☐ complete an independent project to be presented in a formal setting;
- ☐ complete a minimum of 30 cumulative hours of voluntary community service or extracurricular activities that involve the application of STEM.

To earn the iSTEM Graduation Cords, the following requirements must be met:

- ☐ complete all required courses and maintain at least a 2.5 overall GPA;
- ☐ complete at least 2 recommended courses;
- ☐ complete an independent project to be presented in a formal setting;
- ☐ complete a minimum of 20 cumulative hours of voluntary community service or extracurricular activities that involve the application of STEM.

To earn the iSTEM Certificate, the following requirements must be met:

- ☐ complete all required courses and maintain at least a 2.0 overall GPA;
- ☐ complete at least 2 recommended courses;
- ☐ complete an independent project to be presented in a formal setting;
- ☐ complete a minimum of 10 cumulative hours of voluntary community service or extracurricular activities that involve the application of STEM.

ALL iSTEM Academy students must maintain a C average  
and be enrolled in at least one required class each year.

### Required Courses for the iSTEM Academy:

#### 9th Grade: iSTEM I - Foundations (461005)

STEM (Science, Technology, Engineering, and Math) is essential for the development of critical thinking and encouraging innovation. iSTEM takes this a step further by incorporating multiple disciplines while challenging students to solve real-world problems and explore their world. This hands-on, project-oriented, interdisciplinary course will introduce students to engineering, programming, technical writing, research practices, and project management.

#### 10th Grade: iSTEM II - Terrestrial & Space (461035)

This course integrates the study of engineering, computer science, mathematics and scientific principles in terrestrial and outer space environments. Students will be required to collaborate, write, and solve a host of problems skillfully and creatively. Students are expected to present their finished work in a formal setting.

#### 11th Grade: iSTEM III - Aquatic & Air (461045)

This course integrates the study of engineering, computer science, mathematics and scientific principles in atmospheric and aquatic environments. Students will be required to collaborate, write, and solve a host of problems skillfully and creatively. Students are expected to present their finished work in a formal setting.

#### 12th Grade: Academy Capstone (461065)

Students will demonstrate their knowledge and skills through completion of an independent project to be presented in a formal setting. iSTEM Capstone students are expected to mentor students in iSTEM I and iSTEM II classes.

### Recommended Courses for the iSTEM Academy:

Science	<ul style="list-style-type: none"> <li>• Physics (451005)</li> <li>• Physics I AP (457308)</li> <li>• Ecology (434005)</li> <li>• Anatomy &amp; Physiology (433005)</li> <li>• Marine Biology (432017)</li> <li>• Environmental Science AP (427008)</li> </ul>
English	<ul style="list-style-type: none"> <li>• English 10 – Reading and Writing Across STEM Disciplines (114065)</li> <li>• AP Seminar (221108)</li> <li>• AP Research (011058)</li> </ul>
CTE	<ul style="list-style-type: none"> <li>• Computer Animation &amp; 3D Modeling (845905)</li> <li>• Drafting I (853005)</li> <li>• Engineering Drawing &amp; Design (843605)</li> <li>• Graphic Imaging Technology I (866005)</li> <li>• Technical Drawing &amp; Design (843505)</li> </ul>
Math	<ul style="list-style-type: none"> <li>• Computer Science Principles AP (100198)</li> <li>• Advanced Mathematics (316005)</li> <li>• Mathematical Analysis (316205)</li> <li>• Probability &amp; Statistics (319005)</li> <li>• Statistics AP (319208)</li> <li>• Calculus (319905)</li> <li>• Calculus AP AB (317718) or BC (317738)</li> </ul>
History & Social Sciences	<ul style="list-style-type: none"> <li>• Geospatial Science through JMU (295007)</li> <li>• Introduction to Psychology (290005)</li> <li>• Psychology AP (290208)</li> <li>• Sociology (250005)</li> </ul>

## **CAREER CLUSTERS**

Successful individuals in all careers should be able to work as part of a team, accept responsibility, read and understand complex information, communicate well in writing and speaking, accurately perform calculations, proficiently use computers to process information, and correctly record and interpret data. A Career Cluster is a grouping of occupations and broad industries based on commonalities. Career clusters include:

### **AGRICULTURE, FOOD & NATURAL RESOURCES**

Food Products and Processing Systems; Plant Systems; Animal Systems; Power, Structural and Technical Systems; Natural Resource Systems; Environmental Service Systems; Agribusiness Systems

### **ARCHITECTURE & CONSTRUCTION**

Design/Pre-Construction; Construction; Maintenance/Operations

### **ARTS, AV TECHNOLOGY & COMMUNICATIONS**

Audio and Video Technology and Film; Printing Technology; Visual Arts; Performing Arts; Journalism and Broadcasting; Telecommunications

### **BUSINESS, MANAGEMENT & ADMINISTRATION**

General Management; Business Information Management; Human Resources Management; Operations Management; Administrative Support

### **EDUCATION & TRAINING**

Administration and Administrative Support; Professional Support Services; Teaching/Training

### **FINANCE**

Securities and Investments; Business Finance; Accounting; Insurance; Banking Services

### **GOVERNMENT & PUBLIC ADMINISTRATION**

Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; Public Management and Administration

### **HEALTH SCIENCE**

Therapeutic Services; Diagnostic Services; Health Informatics; Support Services; Biotechnology Research and Development

### **HOSPITALITY & TOURISM**

Restaurants and Food/Beverage Services; Lodging; Travel and Tourism; Recreation, Amusements and Attraction

**HUMAN SERVICES**

Early Childhood Development and Services; Counseling and Mental Health Services; Family and Community Services; Personal Care Services; Consumer Services

**INFORMATION TECHNOLOGY**

Network Systems; Information Support and Services; Web and Digital Communications; Programming and Software Development

**LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY**

Correctional Services; Emergency and Fire Management Services; Security and Protective Services; Law Enforcement Services; Legal Services

**MANUFACTURING**

Production; Manufacturing Production Process Development; Maintenance, Installation and Repair; Quality Assurance; Logistics and Inventory Control; Health, Safety, and Environmental Assurance

**MARKETING, SALES & SERVICE**

Marketing Management; Professional Sales; Merchandising; Marketing Communications; Marketing Research

**SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS**

Engineering and Technology; Science and Mathematics

**TRANSPORTATION, DISTRIBUTION & LOGISTICS**

Transportation Operations; Logistics Planning and Management Services; Warehousing and Distribution Center Operations; Facility and Mobile Equipment Maintenance; Transportation Systems/Infrastructure Planning, Management and Regulation; Health, Safety, and Environmental Management; Sales and Service.

**COMPLETING THE ACADEMIC AND CAREER PLANNING GUIDE**

Complete the Academic & Career Planning Guide in consultation with your family and your School Counseling Department.

1. Select a Career Cluster/Path
  - Choose a career cluster/path that closely relates to your interests, skills, values, and strengths.
  - Explore occupations that relate to your skills.
  - Learn what education, skill, and knowledge are required.
2. Decide your Diploma Type
  - Advanced Studies
  - Standard
3. Choose courses that relate to your career path and diploma choice.

# Post-Secondary Planning Timeline

## Comprehensive Four-Year Plan

### 09 Freshman Year: The Beginning

#### Investigate



- High school graduation requirements
- Interests as they relate to careers
- Personal strengths
- Skills you have and those which you need to build

#### Create

- A portfolio – demonstrate your skills, gather your report cards, evidence of awards and honors, and a list of school and community activities

### 10 Sophomore Year

#### Investigate

- Career options
- College entrance requirements
  - Competitive college requirements include
    - English (4 units)
    - Social Studies (4 units)
    - Science (3-4 units)
    - World Language (3-4 units)
    - Mathematics (3-4 units)
    - Fine/Practical Arts/Electives (with a focus)
- AP and/or Dual Enrollment Courses
- The cost of post-secondary education

#### Create

- Update your portfolio throughout the year
- Create a resume
- Update/modify your personal goals as needed

#### Action

- Continue to take challenging courses
- Meet with your school counselor to evaluate your current performance pertaining to future goals
- Read as much as you can from various materials
- Take the PSAT and/or Pre-ACT tests
- Volunteer or work part-time

- Start saving for post-graduation education
- Participate in extra-curricular activities
- Set personal goals using the Virginia Wizard
- Take challenging courses
- Meet with your school counselor to discuss post-secondary goals
- Read as much as you can from a variety of materials
- Prepare for the PSAT and Pre-ACT
- Volunteer or work part-time
- Participate in extra-curricular activities
- Update your Academic and Career Plan in Campus

### 11 Junior Year

#### Investigate

- ☐ College options and the application process
- ☐ NCAA Clearinghouse for potential college athletes
- ☐ Personal traits and how they relate to future plans
- ☐ Dual Enrollment with LFCC

#### Create

- ☐ Update personal goals
- ☐ Update your portfolio
- ☐ Finalize/update your resume

#### Action

- ☐ Continue to take challenging courses, including AP/Honors
- ☐ Take the SAT and/or ACT
  - SAT prep is free at [www.khanacademy.org](http://www.khanacademy.org)
- ☐ Form relationships with teachers who might write you a letter of recommendation
- ☐ Participate in extracurricular and consider leadership roles with them
- ☐ Attend college and career fairs
- ☐ Visit college campuses during spring break and the summer
- ☐ Meet with your school counselor to update your Academic and Career plan and begin to finalize your post-secondary plan

# Post-Secondary Planning Timeline

## Comprehensive Four-Year Plan

### **12** *Senior Year: Crunch Time*

#### Investigate

- College entrance requirements
- College application deadlines
- Financial aid deadlines
- Scholarship options
- College majors
- Community College options
- Workforce credentials

#### Create

- Update your personal portfolio throughout the school year
- Finalize your resume
- Finalize your personal goals

#### Action

##### • **June-August:**

- Prepare for the SAT/ACT. Remember, preparation is free at [www.khanacademy.org](http://www.khanacademy.org)
- Practice completing online applications
- Practice college essays and ask family, friends and teachers to review your writing
- Decide if you will apply to college early
- Work part-time or intern

##### • **September:**

- Meet with your school counselor and review your plans
- Register for the fall SAT/ACT tests
- Research for colleges and make a plan for meeting application deadlines
- Request letters of recommendation from teachers and family friends

##### • **October-December:**

- Complete the Free Application for Federal Student Aid (FAFSA) with your parents.
- Take the SAT or ACT again if needed
- Request Recommendations from teachers
- Apply to colleges

##### • **January-March:**

- Complete scholarship applications

##### • **April:**

- Review college acceptance decisions and finalize your college choice
- Notify your selected school by sending a letter of commitment and submitting a deposit check
- Review any financial aid packages and scholarship awards with your family
- Study for AP exams
- Apply to Lord Fairfax Community College or Northern Virginia Community College if that is your chosen path
- Take the NOVA/LFCC placement tests if need

##### • **May:**

- Take AP exams
- Send thank you notes to those who wrote your letters of recommendation
- Inform your school counselor of any earned Scholarships
- Inform your school counselor about your final post-secondary plan
- Schedule interviews for employment

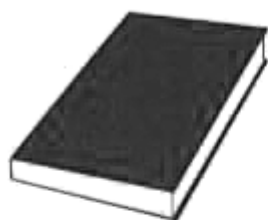
##### • **June-August:**

- Register for college courses
- Participate in any summer orientation programs available at your school of choice
- Finalize financial aid arrangements

**Get ready to start your post-secondary career!**



# How Can My High School Counselor Help Me?



Academic  
Advising



Career and  
College  
Planning



Paying for  
College



Personal or  
Social  
Issues

## 20 Questions to Ask your High School Counselor

1. What courses do I need to take to be ready for college?
2. How should I plan my schedule so I'll complete them?
3. Which elective courses do you recommend?
4. Which AP/IB/Cambridge courses should I consider taking?
5. When is the PSAT/NMSQT or Pre-ACT going to be given?
6. How should I study for the SAT or ACT, and is it given at this high school or do I need to go some where nearby?
7. Do you have any college planning sessions scheduled?
8. Do you have college handbooks or other guides that I can browse or borrow?
9. What activities can I do at home and over the summer to get ready for college?
10. What kinds of grades do different colleges require?
11. Are there any college fairs at this school, or nearby?
12. What colleges do other kids from our school go to?
13. What are the requirements or standards for the honor society?
14. Can you put me in touch with recent grads who are going to the colleges on my wish list?
15. Do you have any information to help me start exploring careers?
16. If my colleges need a recommendation from you, how can I help you know me better, so it can be more personal?
17. Are there any special scholarships or awards that I should know about now, so I can work toward them?
18. Can I see my transcript as it stands now, to see if everything is as I think it should be?
19. What forms do I use to apply for financial aid and where I can find them online?
20. How does our school compare to others, in terms of test scores and reputation?

## Fauquier County Public Schools Academic & Career Planning Guide

Student Name and ID: School:							Anticipated Graduation Date: _____, _____	
		<b>Diploma Type</b>					<b>Diploma Recognitions &amp; Seals:</b>	
High School Diploma Goal(s):			Standard	Advanced	Other			
Career Goal(s):								
Post-Secondary Goal(s):			4-Year College/University			2-Year Community College/Technical Program		Military Branch:
		Other:						
	GRADE	English	Mathematics	Science	History & SS	Health & PE	World Lang	Electives
Middle School	7							
	8							
High School	9	English 9		Earth Science, Environmental Science, or Honors Biology	World History I	Health & Physical Education 9 (CPR, AED, First Aid)		
	10	English 10			World History II	Health & Physical Education 10		
	11	English 11			VA & US History			
	12	English 12			VA & US Government			
	11-12	Economics and Personal Finance (Virtual course requirements embedded in this program)						

## **Section 2**

### **Course Offerings**

# CAREER AND TECHNICAL EDUCATION



## General Information

### Completers

A Career and Technical Education (CTE) *completer* is a student who has taken a sequence of state-approved CTE courses and met all requirements for high school. An approved CTE sequence is designed to develop occupational competencies required for specific career pathways and continuing education. These concentration sequences are listed at the beginning of each CTE program.

### Certifications/Licenses

Completion of certain skill sets and coursework enable students to participate in Virginia Board of Education approved assessments for industry certifications, a state license, or national and/or occupational competency certifications. Students who earn these credentials are eligible to earn verified credits toward graduation requirements. At the beginning of each CTE program is a list of the tests offered by Fauquier County Public Schools. Students earning a Standard Diploma are required to earn a Virginia board-approved Career and Technical Education credential.

### Cooperative Education

Certain Career and Technical Education courses have an optional work component. Students in 11<sup>th</sup> or 12<sup>th</sup> grade enrolled in these classes may choose to participate in these work experiences. Students must successfully complete a full year of employment in order to receive credit. Partial credit is not awarded. Students who plan to graduate in January are not eligible for this program. One credit is awarded for classroom instruction and one credit is awarded for the work experience. Students may participate in only one Cooperative Education program per school year.

## Course Offerings

Agriculture Education

Business and Marketing

Family and Consumer Science

Health and Medical Services

Military Science (AJROTC)

STEM/Technology Education

Trade and Industrial Education

## AGRICULTURE EDUCATION



All agriculture courses count toward meeting the one-credit graduation requirement for Fine Arts or Career and Technical Education.

All agriculture students will have a Supervised Agricultural Experience (SAE) and participate in the Future Farmers of America (FFA).

The National FFA Organization is the co-curricular organization for students enrolled in agriculture education courses. This co-curricular club provides students with an opportunity to use the skills and knowledge they have acquired in district, state, and national competitions.

### Agriculture Education Completer Sequences

Option 1. Applied Agriculture Concepts and one of the following:

- Horticulture Sciences
- Introduction to Animal Systems
- Landscaping I
- Landscaping II

Option 2. Agriculture Business Fundamentals and one of the following:

- Floral Design I
- Floral Design II
- Greenhouse Plant Production and Management
- Introduction to Animal Systems
- Landscaping I
- Landscaping II
- Small Animal Care

Option 3. Introduction to Animal Systems and one of the following:

- Small Animal Care
- Agriculture Business Fundamentals
- Applied Agriculture Concepts

Option 4. Small Animal Care and one of the following:

- Agriculture Business Fundamentals
- Introduction to Animal Systems

Option 5. Two of the following:

- Agricultural Business Fundamentals
- Applied Agricultural Concepts
- Agricultural Machinery I
- Agricultural Machinery II
- Agricultural Machinery III

Option 6. Two of the following:

- Agricultural Business Fundamentals
- Floral Design I
- Floral Design II

### Cooperative Education

Cooperative Education is a work-based learning, career preparation method that combines CTE classroom instruction with paid employment that is directly related to the student's plan of study. The school and the employer plan, coordinate, and supervise the instruction and employment so that each contributes directly to the student's career objectives and employability. Students may earn credit toward graduation for cooperative education experiences. This is a year-long commitment with a minimum of 280 hours required for credit. Cooperative education credit is available in:

- Agricultural Machinery II: Agricultural Power Systems
- Agricultural Machinery III: Agricultural Fabrication & Emerging Technologies
- Agricultural Business Fundamentals
- Introduction to Natural Resources, Ecology Systems
- Landscaping
- Greenhouse Plant Production & Management
- Floral Design I
- Floral Design II
- Agricultural Business
- Horticulture Sciences

### Credentialing Tests Offered in Agriculture Education

- Workplace Readiness Skills for the Commonwealth examination
- National Career Readiness
- Agriculture Mechanics (NOCTI)
- Natural Resource Systems (NOCTI)
- Floriculture (NOCTI)
- Floriculture: Greenhouse (NOCTI)
- Greenhouse Operator
- Horticulture: Landscaping (NOCTI)
- Animal Systems Assessment (NOCTI)

**Applied Agricultural Concepts 807305**

Credit: 1

Grade: 9-12

Prerequisite: None

This introductory class should be a student's first agriculture class in high school. Areas of instruction include home lawn, garden and pasture care; agricultural sustainability; basic home/farm maintenance including plumbing, electrical wiring, and carpentry fundamentals; and animal and meat grading and selection. This course emphasizes leadership development activities and participation in FFA activities. Teachers may incorporate additional competencies related to local agriculture.

**Agricultural Business Fundamental 802205****Agricultural Business Fundamentals****Co-Op 802225**

Credit: 1 (additional credit for Co-Op)

Grade: 10-12

Prerequisite: None

Students develop the necessary knowledge, skills, habits, and attitudes for employment in off-farm agricultural businesses. Emphasis is placed on personal financial management practices, consumer choices, financial records, business structures and procedures, and the economics of marketing agricultural products and services. Leadership training is provided through the FFA.

**Introduction to Animal Systems 800805**

Credit: 1

Grade: 9-12

Prerequisite: None

Students develop competencies in each of the major areas of the Animal Systems career pathway including animal nutrition, reproduction, breeding, care and management. Students will learn agricultural mechanics applicable to animal systems. As will all agriculture courses, students will be exposed to principles of leadership and opportunities within student organizations along with Supervised Agricultural Experience (SAE) opportunities.

**Small Animal Care 808325**

Credit: 1

Grade: 10-12

Prerequisite: Introduction to Animal Systems recommended

Students will learn how to care for and manage animals, with a focus on instructional areas in animal health, nutrition, management, reproduction, and evaluation. Course content also includes instruction in the tools, equipment and facilities for animal care, and provides activities to foster leadership development. FFA and SAE activities are encouraged.

**Agricultural Machinery I: Introduction to Power Structural & Technical Systems 801605**

Credit: 1

Grade: 9-12

Prerequisite: None

Throughout this introductory-level agricultural power course, students will receive instruction in the areas of basic engine principles, power trains, hydraulics, and electrical systems. This course will also address the areas of building structures, metal fabrication, precision agricultural management, and leadership training in FFA.

**Agricultural Machinery II: Agricultural Power Systems 801805****Agricultural Machinery II: Agricultural Power Systems CO-OP 801825**

Credit: 1

Grade: 10-12

Prerequisite: Agricultural Machinery Services I

Instruction in agricultural power systems will 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, career skills, and leadership training in FFA. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the year.

**Agricultural Machinery III: Agricultural Fabrication & Emerging Technologies 801905****Agricultural Machinery III: Agricultural Fabrication & Emerging Technologies Co-Op 801925**

Credit: 1 (additional credit for Co-Op)

Grade: 11-12

Prerequisite: Agricultural Machinery Services II

Students will receive instruction in the areas of agricultural fabrication and emerging technologies. The course content will focus on hot and cold metal fabrication and will also include studies of emerging technologies utilized within the field of agriculture.

**Introduction to Natural Resources and Ecology Systems 804015****Introduction to Natural Resources and Ecology Systems Co-Op 804025**

Credit: 1 (one additional credit for Co-Op)

Grade: 9-12

Prerequisite: None

This course serves as the introductory level course for the Natural Resources Pathway. Students will explore the student of natural resources and begin to develop skills and knowledge required for employment in occupations related to forestry, wildlife, and natural resources management, conservation, and leadership.



**Horticulture Sciences** 803415

**Horticulture Sciences Co-Op** 803425

Credit: 1 (one additional credit for Co-Op)

Grade: 9-12

Prerequisite: None

This course provides students with the necessary skills to work in such areas as floriculture, landscape and design, greenhouse operation, nursery plant production, and turf management. This class provides students with hands-on experience in identifying, propagating, and growing horticultural plants in the greenhouse and land laboratory. Introduction to hydroponics and biotechnology is provided. Students will also explore career opportunities and develop leadership skills through involvement in FFA activities.

**Landscaping** 803615

**Landscaping Co-Op** 803625

Credit: 1 (one additional credit for Co-Op)

Grade: 10-12

Prerequisite: Completion of Horticulture Sciences

In this course, students develop the necessary knowledge, skills, habits, and attitudes for entry-level employment and advancement in areas such as landscape design, landscape construction, and landscape maintenance. Students receive instruction in sketching and drawing, analyzing a landscape site, designing for function and aesthetics, identifying and selecting landscape plants, purchasing and installing plants, and maintaining the landscape by watering, fertilizing, mulching, pruning, and controlling pests.

**Greenhouse Plant Production** 803505

**& Management**

**Greenhouse Plant Production**

**& Management Co-Op** 803525

Credit: 1 (one additional credit for Co-Op)

Grade: 10-12

Prerequisite: Completion of Horticulture Sciences

Students enrolled in this course learn the operating procedures for a greenhouse. Units of instruction include developing plant production facilities, science application in plant production, and identification of plants. Business management and marketing skills are emphasized to prepare students for careers in greenhouse plant production and management industry. Leadership development is offered through participation in FFA.

**Floral Design I** 805505

**Floral Design I Co-Op** 805525

Credit: 1 (one additional credit for Co-Op)

Grade: 10-12

Prerequisite: None

Course content covers career opportunities, floral design foundations, design applications, and the marketing of floral products. Specific design styles to be examined include mass, mass-line, line, vase, wedding, balloon, holiday, and personal adornment arrangements. The course also emphasizes leadership activities and opportunities to participate in FFA events.

**Floral Design II** 805605

**Floral Design II Co-Op** 805625

Credit: 1 (one additional credit for Co-Op)

Grade: 11-12

Prerequisite: Floral Design I

Course content covers historical designs, contemporary designs, oriental designs, seasonal designs, floragraphy and designs for dried arrangements, novelty pieces, special events, and sympathy work. Students also study pricing, advertising design, wire services, delivery processes, professional organizations, sales activities, and opportunities to participate in FFA events.

## BUSINESS AND MARKETING



All business and marketing education courses will count toward meeting the one-credit graduation requirement for Fine Arts or Career and Technical Education.

Future Business Leaders of America (FBLA) is the co-curricular organization for business students. Distributive Education Clubs of America (DECA), a career technical student organization, is the co-curricular organization for marketing students. These co-curricular clubs provide students with an opportunity to use the skills and knowledge they have acquired in district, state, and national competitions.

### Business Education Completer Sequences

Option 1. Two of the following courses:

- Business Law
- Accounting
- Advanced Accounting
- Computer Information Systems
- Advanced Computer Information Systems
- Office Administration
- Digital Applications/Keyboarding
- Entrepreneurship

Option 2. Office Specialist I, II or III and one of the following courses:

- Business Law
- Digital Applications
- Accounting
- Advanced Accounting
- Office Administration
- Computer Information Systems
- Advanced Computer Information Systems

### Marketing Education Completer Sequences

Option 1. Marketing and two of the following courses:

- Marketing
- Entrepreneurship
- Fashion Marketing
- Advanced Fashion Marketing
- Marketing Management
- Sports and Entertainment Marketing
- Sports and Entertainment Management
- Travel and Tourism Marketing

Option 2. Fashion Marketing or Advanced Fashion Marketing and one of the following courses:

- Marketing
- Marketing Management
- Fashion Marketing
- Advanced Fashion Marketing
- Entrepreneurship

### Cooperative Education

Cooperative Education is a work-based learning, career preparation method that combines CTE classroom instruction with paid employment that is directly related to the student's plan of study. The school and the employer plan, coordinate, and supervise the instruction and employment so that each contributes directly to the student's career objectives and employability. Students may earn credit toward graduation for cooperative education experiences. This is a year-long work commitment with a minimum of 280 hours required for credit. Cooperative education credit is available in:

- Business Law
- Office Specialist III
- Office Administration
- Accounting
- Advanced Accounting
- Computer Information Systems
- Advanced Computer Information Systems
- Digital Applications/Keyboarding
- Economics & Personal Finance
- Marketing
- Fashion Marketing
- Advanced Fashion Marketing
- Entrepreneurship
- Marketing Management
- Sports and Entertainment Management
- Hospitality & Tourism Marketing

### Credentialing Tests Offered in Business Education

- Microsoft Office Specialist – MOS
- WISE Financial Literacy Certification
- Workplace Readiness Skills for the Commonwealth Exam

### Credentialing Tests Offered in Marketing Education

- Customer Services and Sales Certification Assessment Levels I & II
- WISE Financial Literacy Certification
- Workplace Readiness Skills for the Commonwealth Exam



**Business Law** 613105  
**Business Law Co-Op** 613125  
 Credit: 1 (one additional for Co-Op)  
 Grade: 10-12  
 Prerequisite: None

Students examine the foundations of the American legal system and learn the rights and responsibilities of citizens and businesses. Students gain knowledge and skills by exploring economic and social concepts related to laws governing business and individuals. Focus areas include contracts, consumer protection, criminal law, tort law, international law, family/domestic law, employment law, cyber law, and careers in the legal profession.

**Digital Applications/Keyboarding** 661105  
 Credit: 1  
 Grade: 9-12  
 Prerequisite: None

This course is designed for secondary school students to develop keyboarding skills, basic computer operations, application software (word processing, spreadsheets, multimedia applications, databases), career exploration, develop real-life, outcome-driven approach skills for digital citizenship. Students who successfully complete this course may be eligible for a rigorous and relevant industry certification examination. Student skills may be enhanced by participation in work-based learning activities and/or the Future Business Leaders of America (FBLA).

**Office Specialist I** 674003  
 Credit: 1  
 Grade: 9-10  
 Prerequisite: None

Students complete the Office Specialist sequence identified locally or progress in the sequence until prepared to transfer into other business courses. Students develop skills in areas including keyboarding, word processing, office procedures, and records management. If a fourth year is needed, the teacher should use simulated activities in the following areas: word processing, spreadsheets, databases, telecommunications, desktop publishing, and records management.

**Office Specialist II** 674103  
**Office Specialist II Co-Op** 674125  
 Credit: 1 (one additional credit for Co-Op)  
 Grade: 10-11  
 Prerequisite: Office Specialist I or Digital Applications

Students complete the Office Specialist sequence identified locally or progress in the sequence until prepared to transfer into other business courses. Students develop skills in areas including keyboarding, word processing, office procedures, and records management. If a fourth year is needed, the teacher should use simulated activities in the following areas: word processing, spreadsheets, databases, telecommunications, desktop publishing, and records management. The cooperative education method is

available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

**Office Specialist III** 674203  
**Office Specialist III Co-Op** 674225  
 Credit: 1 (one additional credit for Co-Op)  
 Grade: 11-12  
 Prerequisite: Office Specialist II

Students complete the Office Specialist sequence identified locally or progress in the sequence until prepared to transfer into other business courses. Students develop skills in areas including keyboarding, word processing, office procedures, and records management. If a fourth year is needed, the teacher should use simulated activities in the following areas: word processing, spreadsheets, databases, telecommunications, desktop publishing, and records management. The cooperative education method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

**Office Administration** 662105  
**Office Administration Co-Op** 662125  
 Credit: 1 (one additional credit for Co-Op)  
 Grade: 11-12  
 Prerequisite: Digital Applications/Office Specialist I

Students develop and enhance skills in processing and managing information, data, and financial functions while developing and improving communication skills and other vital competencies needed for successful employment as administrative support professionals. Students examine and employ the latest technology and software used in office systems. In addition, students study procedures involved with information processing, procurement, telecommunications, maintaining office systems, organizing and planning functions, supervising employees, and developing employability skills.

**Accounting** 632005  
**Accounting Co-Op** 632125  
 Credit: 1 (one additional for Co-Op)  
 Grade: 11-12  
 Prerequisite: Accounting

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

**Advanced Accounting** 632105  
**Advanced Accounting Co-Op** 632125  
 Credit: 1 (one additional credit for Co-Op)  
 Grade: 11-12  
 Prerequisite: Accounting

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

**Computer Information Systems** 661205  
**Computer Information Systems Co-Op** 661225  
 Credit: 1 (one additional for Co-Op)  
 Grade: 9-12  
 Prerequisite: Digital Applications recommended

Students apply problem-solving skills to real-life situations through word processing, spreadsheets, databases, multimedia presentations, and integrated software activities. Students work individually and in groups to explore computer concepts, operating systems, networks, telecommunications, and emerging technologies as well as career opportunities related to the information technology field.

**Advanced Computer Information Systems** 661305  
**Advanced Computer Information Systems Co-Op** 661325  
 Credit: 1 (one additional credit for Co-Op)  
 Prerequisite: Computer Information Systems

Students enhance computer information technology skills through the use of advanced integrated applications to create documents, publications, and websites including complex graphs, customized reports, and multimedia presentations. In addition to implementing programming and executing network activities, students will also practice the maintenance, management, and troubleshooting of systems; legal and ethical issues are explored; preparation is given for industry certifications; employability skills are developed.

**Economics and Personal Finance** 6120CTE  
**Economics and Personal Finance Co-Op** 612005  
 Credit: 1 (one additional credit with Co-Op)  
 Grade: 11-12  
 Prerequisite: None

In this course, which satisfies the financial literacy

requirements for graduation, students navigate financial decisions they must face and make informed decisions related to career exploration, budgeting, banking, credit, insurance, spending, taxes, savings, investing, buying/leasing a vehicle, living independently, and inheritance. Development of financial literacy skills and an understanding of economic principles are the basis for responsible citizenship and career success. In addition to developing personal finance skills, students in this course will study occupational skills and concepts in preparation for entry-level employment in the field of finance. Students will take the WISE exam.

**Marketing** 812005  
**Marketing Co-Op** 812025  
 Credit: 1 (one additional credit for Co-op)  
 Grade: 9-12

Students examine activities in marketing and business important for success in marketing employment and postsecondary education. Students will learn how products are developed, branded, and sold to businesses and consumers. Students will analyze industry trends and gain hands-on experience in the marketing of goods, services and ideas. Topics will include professionalism in the workplace, product planning and positioning, promotion, pricing, selling, economic issues, and the impact of technology on the marketplace.

**Fashion Marketing** 814005  
**Fashion Marketing Co-Op** 814025  
 Credit: 1 (one additional for Co-Op)  
 Grade: 10-12  
 Prerequisite: None

This course leads students into the exciting and ever-changing world of fashion. Students gain knowledge of marketing as it relates to the fashion industry. From brick-and-mortar retail establishments to online retail and social media marketing, students will explore aspects such as trends, technology, the buying process, visual merchandising, the nature of history of fashion designers, and the global impact of the fashion industry on the economy. Academic skills related to the content are part of this course.

**Advanced Fashion Marketing** 814505  
**Advanced Fashion Marketing Co-Op** 814525  
 Credit: 1 (one additional for Co-Op)  
 Grade: 11-12  
 Prerequisite: Fashion Marketing

This advanced-level course prepares students for a career in the global fashion industry. Students gain deeper knowledge of the field and apply skills in marketing. Students explore sustainability, social responsibility, entrepreneurship, technology applications, buying, portfolio development, and careers. Academic skills related to the content are part of this course.

**Entrepreneurship** 909305  
**Entrepreneurship Co-Op** 909325  
 Credit: 1 (one additional credit for Co-Op)  
 Grade: 10-12  
 Prerequisite: None

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

**Marketing Management** 813205  
**Marketing Management Co-Op** 813225  
 Credit: 1 (one additional credit for Co-Op)  
 Grade: 12  
 Prerequisite: None

This course is designed for high school seniors who plan to attend college with a concentration in marketing, business, or management and/or who have plans to manage or own a business. Students will be exposed to all aspects of marketing and management, including branding, digital marketing, promotion, communication, and career opportunities in marketing.

**Sport and Entertainment Marketing** 817505  
**Sport and Entertainment Marketing Co-Op** 817525  
 Credit: 1 (one additional credit for Co-Op)  
 Grade: 10-12  
 Prerequisite: None

Students develop a thorough understanding of fundamental marketing concepts and theories relating to the sports and entertainment industries. Students will investigate the components of customer service skills, branding, product development, pricing and distribution strategies, business structures, sales processes, digital media sponsorships and endorsements, and promotion plans needed for sports and entertainment events. The course also supports career development skills, explores career options, and develops workplace readiness skills.

**Sports and Entertainment Management** 817705  
**Sports and Entertainment Management Co-Op** 817725  
 Credit: 1 (one additional credit for Co-Op)  
 Grade: 11-12  
 Prerequisite: Sports and Entertainment Marketing

Students build on prior knowledge of sports and entertainment marketing. This course focuses on the principles of management and planning supported by research, financial, and legal concepts. Students plan an event, develop a career plan, and establish a sports, entertainment, or recreation marketing product/business.

**Travel and Tourism Marketing** 813905  
**Travel and Tourism Marketing Co-Op** 813925  
 Credit: 1 (one additional credit for Co-Op)  
 Grade: None

Students gain knowledge of the hospitality and tourism industry, including attractions, lodging, transportation, and food and beverage. Other topics include the history, political, social, and cultural impacts hospitality and tourism have had on local, state, and global environments. Students will develop competencies in the areas of communication, customer service, marketing, industry technology, economics, and management functions, and will be provided with opportunities for hands-on, real-world applications.

## FAMILY AND CONSUMER SCIENCES



All Family and Consumer Sciences courses will count toward meeting the one-credit graduation requirement for Fine Arts or Career and Technical Education.

Family, Career, and Community Leaders of America (FCCLA) is the co-curricular organization for Family and Consumer Science students. This co-curricular club provides students with an opportunity to use the skills and knowledge they have acquired in district, state, and national competitions.

### Family and Consumer Science Completer Sequences

Option 1. Child Development and one of the following courses:

- Life Planning
- Nutrition & Wellness
- Early Childhood Education & Services I
- Early Childhood Education & Services II
- Early Childhood Education & Services III

Option 2. Two of the following courses:

- Child Development
- Early Childhood Education & Services I
- Early Childhood Education & Services II
- Early Childhood Education & Services III

Option 3. Two of the following courses:

- Independent Living
- Nutrition & Wellness
- Life Planning
- Culinary Arts I
- Culinary Arts II

Option 4. Introduction to Interior Design and one of the following courses:

- Independent Living
- Life Planning

Option 5. Introduction to Interior Design and two of the following courses:

- Nutrition & Wellness
- Culinary Arts I
- Culinary Arts II

### Credentialing Test offered in Family and Consumer Sciences

- Workplace Readiness Skills for the Commonwealth

### Child Development

823205

Credit: 1

Grade: 10-12

Prerequisite: None

The growth and development of children are studied in this single-block course. Practical experiences in a day-care center or observation of child behavior is an essential part of this course. Emphasis is given to parental responsibility, community resources, and environment.

### Culinary Arts I

825005

Credit: 1

Grade: 10-12

Prerequisite: None

The Culinary Arts curriculum provides students with opportunities to explore career options and entrepreneurial opportunities within the food service industry. Students investigate food safety and sanitation, explore culinary preparation foundations, practice basic culinary skills, explore diverse cuisines and service styles, investigate nutrition and menu development, and examine the economics of food. The curriculum places a strong emphasis on science and mathematics knowledge and skills.

### Culinary Arts II

827605

Credit: 2

Grade: 10-12

Prerequisite: Culinary Arts I with a grade of C or better recommended.

The Culinary Arts II curriculum provides students with continuing opportunities to acquire a comprehensive knowledge of the food service industry as well as to expand their technical skills. Students practice kitchen safety and sanitation, apply nutritional principles to food preparation and storage, perform a wide range of more advanced food- preparation techniques including garden manager and baking, refine their dining room serving skills, develop menus, perform on-site catered functions, and strengthen their business and math skills. The curriculum continues to place a strong emphasis on science and mathematics knowledge and skills.

### Early Childhood Education & Services I

828505

Credit: 1

Grade: 11-12

Prerequisite: Grade of C or better in Child Development or recommendation of instructor. All students must complete a program application.

This course combines the study of child growth and development with participation in the planning and operation of a child-care center for three and four-year-olds. Opportunity is provided for students to prepare for careers involving children and for the responsibility of making daily decisions that affect children. Career

opportunities that involve working with children are explored such as: social work, education, psychology, child-care, and medicine.

Because of a high demand, a Child Care Specialist application must be submitted and the grade point average in the prerequisite course (Child Development 823205) may be considered for enrollment. Applications can be acquired from the counseling department.

**Offered only at FHS.**

### **Early Childhood Education & Services II      828605**

Credit: 1

Grade: 11-12

Prerequisite: Recommended grade of C or better in Early Childhood Education & Services I

Students prepare for positions in child-care centers as child care attendants, kindergarten aides, or child-care assistants; as foster parents; or as entrepreneurs. Critical thinking, practical problem solving, and entrepreneurship opportunities within the field of early childhood education are emphasized. Teachers highlight the basic skills of math, science, and communication when appropriate in the content. Because of high demand, grades in the Prerequisite courses (Child Development 823205 and Child Care Specialist I 828505) may be considered for enrollment. **Offered only at FHS.**

### **Introduction to Interior Design      825505**

Credit: 1

Grade: 10-12

Prerequisite: None

The Introduction to Interior Design students explore influences on the design of interior spaces, investigate careers in the interior design industry, and focus on the technical and soft skills necessary for employment in the field of interior design. Students develop an interior design project that meets specific criteria and includes elements and principles of design.

### **Nutrition and Wellness      822905**

Credit: 1

Grade: 9-12

Prerequisite: None

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

## **HEALTH AND MEDICAL SCIENCES**



All Health and Medical Sciences courses will count toward meeting the one-credit graduation requirement for Fine Arts or Career and Technical Education.

Health Occupations Students of America (HOSA) is the co-curricular organization for Health and Medical Sciences students. HOSA provides students with an opportunity to use the skills and knowledge they have acquired in district, state, and national competitions.

### **Health and Medical Science Completer Sequence**

Option 1:

Both of the following courses:

- Introduction to Health & Medical Sciences
- Nurse Aide

Option 2:

Two of the following courses:

- Introduction to Health & Medical Sciences
- Pharmacy Technician I
- Pharmacy Technician II

### **Credentialing Tests Offered in Health and Medical Sciences**

- Workplace Readiness Skills for the Commonwealth
- Certified Nurse Aide (CNA)
- Certified Pharmacy Technician (CPhT)

### **Exploring Physical Therapy      982615**

Credit: 1

Grade: 10-12

Prerequisite: Intro to Health and Medicine, Nurse Aid, Anatomy or Sports Medicine Recommended

This course is designed to provide an introduction to the professions of physical therapy. Students explore the principles and practices of therapists in the health care industry and participate in clinical observation under the direct supervision of a licensed physical therapist. Clinical skills in the areas of physical therapy enable students to gain an understanding of rehabilitative care, which is practiced throughout the continuum of care across the life span of individuals. After successful completion of this course, students may seek higher education for specific degrees/licensure in a variety of fields such as physical therapy, sports medicine, athletic training, chiropractic medicine, biology or exercise science.

**Pilot only offered at KRHS.**

**Introduction to Health and Medical Sciences 830205**

Credit: 1

Grade: 9-12

Prerequisite: None

This course introduces the student to a variety of healthcare careers and develops basic skills required in all health and medical sciences. It is designed to help students understand the key elements of the U.S. healthcare system and to learn basic healthcare terminology, anatomy and physiology for each body system, pathologies, diagnostic and clinical procedures, therapeutic interventions, and the fundamentals of traumatic and medical emergency care. Throughout this course, instruction emphasizes safety, cleanliness, asepsis, professionalism, accountability, and efficiency within the healthcare environment. Students also begin gaining job-seeking skills for entry into the health and medical sciences field. In addition, instruction may include the basics of medical laboratory procedures, pharmacology fundamentals, biotechnology concepts, and communication skills essential for providing quality patient care.

**Nurse Aide****836005**

Credit: 2

Grade: 12

Prerequisite: Introduction to Health and Medical Sciences Recommended

Nurse Aide is an occupational preparation course emphasizing the study of nursing occupations as related to the health care system. Students study normal growth and development, simple body structure and function, and medical terminology and are introduced to microbes and disease. They receive advanced skill training in areas such as taking and recording of vital signs; cardiopulmonary resuscitation; and bathing, feeding, dressing, and transporting of patients in hospitals and nursing homes; catheter care, range of motion, bowel and bladder training, care of the dying, selected procedures for maternal and infant care, and admission and discharge procedures. Students learn diseases and body systems as related to advanced clinical care of the acute medical-surgical patient, the chronically ill, and the elderly. On-the-job instruction in a licensed nursing home is part of the course. Upon completion of the nurse aide program, the student is eligible to take the nurse aide certification exam that leads to employment as a certified nurse aide in hospitals and nursing homes. Requirements: Application, fee for uniform, white shoes, watch with second hand, Two-step TB testing. **Offered only at FHS.**

**Pharmacy Technician I****830505**

Credit: 1

Grade: 11-12

Prerequisite: Intro to Health and Medical Science Recommended

This course introduces students to the profession of pharmacy technician. Students will study pharmacy settings, health and safety, medical terminology, and are introduced to drug classes and pharmacy math. Students will also gain insight into the skills required for employment in the other medical fields. **Offered only at FHS.**

**Pharmacy Technician II****830605**

Credit: 2

Grade: 12

Prerequisite: Pharmacy Technician I

This double-blocked course will prepare students for employment and licensure as a pharmacy technician. Students study advanced pharmacy techniques such as medication compounding, inventory management and prescription processing. Upon completion of Pharmacy Technician I and II, students will be eligible to take the Pharmacy Technician Certification Exam. **Offered only at FHS.**

## STEM/TECHNOLOGY EDUCATION



All STEM/Technology Education courses will count toward meeting the one-credit graduation requirement for Fine Arts or Career and Technical Education.

Technology Students of America (TSA) is the co-curricular organization for STEM/Technology Education students. This co-curricular club provides students the opportunity to apply the skills and knowledge they have acquired in various district, state, and national competitions.

### STEM/Technology Education Completer Sequences

Option 1. Technical Drawing & Design and one of the following courses:

- Architectural Drawing & Design
- Digital Visualization
- Engineering Drawing & Design
- Digital Visualization

Option 2. Both of the following courses:

- Principles of Technology I
- Principles of Technology II

### Credentialing Tests Offered in Technology Education

- ADDA Drafting Certification
- Architectural Drafting (NOCTI)
- AutoCAD
- Autodesk AutoCAD
- Autodesk Inventor
- Autodesk Revit Certification
- Workplace Readiness Skills for the Commonwealth

### Technical Drawing and Design 843505

Credit: 1

Grade: 9-12

Prerequisite: None

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

### Architectural Drawing & Design 843705

Credit: 1

Grade: 10-12

Prerequisite: Technical Drawing & Design

Students will explore architectural design foundations and increase their understanding of working drawings, construction techniques, and codes regulating building design. They learn the design process and apply the elements and principles of design to architectural projects. Through producing models and illustrations of all aspects of a building, students create architectural design solutions using virtual modeling software.

### Engineering Drawing and Design 843605

Credit: 1

Grade: 10-12

Prerequisite: Technical Drawing and Design

Students will create 3D models of products, devices, objects, and assemblies. Students will learn how things are assembled and how they work by animating the designs they create. Design projects include human-powered vehicles, robots, space ships, movie props, mechanical devices, amusement park rides, and deep-sea exploration vehicles. Certification tests for Autodesk Inventor and AutoCad software will be offered to students who complete this course.

### Computer Animation & 3D Modeling 845905

Credit: 1

Grade: 10-12

Prerequisite: Technical Drawing & Design, and Graphic Design I

This course provides students with opportunities to explore the world of 3D modeling, rendering, and animation. Students will learn about character modeling, camera placement, lighting, textures and special effects such as those used in movies and games. Background creation and virtual environments will be added to create videos related to science, space, human motion, real world simulations, disasters, and other visualizations. Rendering and gaming techniques will be used to give students a background in the world of virtual animation. Professional animation software, such as 3D Studio Max, will be used in this class.

**Principles of Technology I** 981105

Credit: 1

Prerequisite: Algebra I or Algebra I Part 2

Students in this course apply physics and mathematics concepts through a unified systems approach to develop a broad knowledge base of the principles underlying modern technical systems. Students study seven technical principles: force, work, rate, resistance, energy, power, and force transformers, emphasizing how each principle plays a unifying role in the operation of mechanical, fluid, electrical, and thermal systems in high-technology equipment. This “principles and systems” approach to studying these technical principles provides a foundation for further education and career flexibility as technology and technical systems advance. Students who complete Principles of Technology I and Principles of Technology II may use these courses to satisfy one science credit in addition to the elective credits.

**Principles of Technology II** 981205

Credit: 1

Grade: 10-12

Prerequisite: Principles of Technology I

Students continue to apply physics and mathematics concepts through a unified systems approach to expand their knowledge base of the principles underlying modern technical systems. This course focuses on seven technical principles: momentum, waves, energy converters, transducers, radiation, optical systems, and time constants, emphasizing how each principle plays a unifying role in the operation of mechanical, fluid, electrical, and thermal systems in high-technology equipment. This “principles and systems” approach to studying these technical principles provides a foundation for further education and career flexibility as technology and technical systems advance. Students who complete Principles of Technology I and Principles of Technology II may use these courses to satisfy one science credit in addition to the elective credits.

**Technology Foundations** 840305

Credit: 1

Grade: 9-12

Prerequisite: None

In this beginning course, students acquire a foundation in material, energy, and information, and apply processes associated with the technological thinker. Challenged by laboratory activities, students create new ideas and innovations, build systems, and analyze technological products to learn further how and why technology works. Students will work in the areas of dragster design, structural design, aerospace, electricity, robotics, automotive and material testing. They work in groups to build and control systems using engineering design.  
**Offered only at LHS.**

**Technology Transfer** 840505

Credit: 1

Grade: 9-12

Prerequisite: Technology Foundations

Building upon Technology Foundations, students work with a variety of computers, materials, and systems to improve their skills and knowledge. Groups work together on a project that combines systems such as production, energy, communication, transportation, and other technologies. Thematic activities engage students in community problems where they transfer the technological method to address recycling, space exploration, and housing.

**Offered only at LHS.****Technology Assessment** 840705

Credit: 1

Grade: 10-12

Prerequisite: Technology Transfer

Technology Assessment is offered as a capstone course. Students use their knowledge and abilities in math, science, and technology to analyze the contributions of technical devices to their homes and the world. Students use information they acquire through library research or computer databases to predict the future. They design futuristic products and use assessment to determine possible results. They also use computer graphics, videotapes, and design portfolios to present their newly created products and systems.

**Offered only at LHS.**



## TRADE AND INDUSTRIAL EDUCATION



All trade and industrial education courses will count toward meeting the one-credit graduation requirement for Fine Arts or Career and Technical Education.

SkillsUSA is the co-curricular organization for Trade and Industrial Education students. This co-curricular club provides students with an opportunity to use the skills and knowledge they have acquired in district, state, and national competitions.

### Trade and Industrial Education Completer Sequences

Option 1. Two of the following courses:

- Automotive Technology I
- Automotive Technology II
- Automotive Technology III

Option 2. Two of the following courses:

- Auto Body Technology I
- Auto Body Technology II
- Auto Body Technology III

Option 3. Both of the following courses:

- Electricity I
- Electricity II

Option 4. Two of the following courses:

- Cosmetology I
- Cosmetology II
- Cosmetology III

Option 5. Both of the following courses:

- Drafting I
- Drafting II

Option 6. Two of the following courses:

- Graphic Design I
- Graphic Design II
- Graphic Design III
- Graphic Design IV

Option 7. Both of the following courses:

- Carpentry I
- Carpentry II

### Credentialing Tests Offered In Trade and Industrial Education

- Workplace Readiness Skills for the Commonwealth Examination
- Automotive Technician (ASE)
- Collision Repair and Refinishing Technician (ASE)
- Electrical Level One (NCCER)
- Cosmetology (NOCTI)
- Virginia Cosmetology License
- ADDA Architectural Drafting
- AutoDesk Certification
- Fire Fighter I
- Fire Fighter II
- Adobe Certified Associate – ACA
- ICAR Certifications Examinations

#### Automotive Servicing Online

861098

Credit: 1

Grade: 10-12

Prerequisite: None

This entry-level online course is designed for students interested in automotive technology and/or engineering. Students in this course learn the foundational principles and knowledge of systems and sub-systems of the automobile related to maintenance and light repair. Students will apply math, science, written and verbal communication, and workplace readiness skills to virtual simulations while learning automotive competencies.

#### Automotive Technology I

850605

Credit: 1

Grade: 10-12

Prerequisite: None

Students are introduced to systems and components of the automobile. In addition, this course will include the study of shop safety, procedures, tools, equipment, steering, suspension, brakes, electrical/electronics, emissions and the certification requirements for ASE. This course is a prerequisite for Automotive Technology II.

**Offered only at FHS.**

#### Automotive Technology II

850705

Credit: 2

Grade: 10-12

Prerequisite: Grade of C or better in Automotive Technology I

In this double blocked course, students prepare for an entry-level position in the automotive field. Curriculum will focus primarily on electrical and electronics, and drivability and emissions. Through participation in classroom and lab activities, students will develop and master the knowledge and skills to repair automotive systems. **Only offered at FHS.**

**Automotive Technology III Part I** 850805  
**Automotive Technology III Part II** 850815

Credit: 2 each

Grade: 10-12

Prerequisite: Automotive Technology III Part I:

Automotive Technology II with a grade of C or better recommended

In this two-part, double block course, students combine classroom theory with hands-on techniques. Students prepare for an entry-level position in the automotive field with a focus on brakes; steering electrical systems, drivability, and emissions. Through participation in classroom and lab activities, students develop and master the knowledge and skills to repair automotive systems. This is a hands-on class with live work that prepares students to take ASE tests in four areas. Students are encouraged to participate in SkillsUSA and FORD AAA skills competitions. **Offered only at FHS.**

**Auto Body Technology I** 867605

Credit: 1

Grade: 10-12

Prerequisite: None

The Auto Body Technology I is a single-block class where students will begin an I-CAR training program. The I-CAR training programs are recognized by most leading vehicle manufacturers. In the introduction class, students will receive training in the following areas: collision safety, pollution prevention, hazardous materials, personal safety, refinish safety, customer relations, Mig welding, trim and hardware, plastic repair, restraints, straightening steel, exterior panel repair, and painting basics. This course is a prerequisite for Auto Body Technology II and III. **Offered only at FHS.**

**Auto Body Technology II** 867705

Credit: 2

Grade: 10-12

Prerequisite: Auto Body Technology I

Auto Body Technology II is a double-block class. In this class, students will continue with I-CAR training and prepare for an ASE tests. Students will receive training in the following areas: Painting and Refinishing levels 1-4, Fundamentals of Collision Repair, and Damage Analysis levels 1-6. After completing these modules students will practice all competencies in the lab environment. **Offered only at FHS.**

**Auto Body Technology III Part I** 867805

**Auto Body Technology III Part II** 867815

Credit: 2 each

Grade: 10-12

Prerequisite: Auto Body Technology II with a grade of C or better recommended

In this two-part, double block course, students will combine classroom theory with hands-on techniques. In

Auto Body Technology III, students will complete I-CAR training by taking the following programs: brakes, lighting, starting and charging systems, and air conditioning. After finishing these programs and passing the associated tests with a score of 86 or better, students will be eligible to receive their individual platinum certificate. Through participation in classroom and lab activities, students develop and master their knowledge and skills. **Offered only at FHS.**

**Carpentry I** 860105

Credit: 1

Grade: 9-12

Prerequisite: None

Carpentry I is foundational for achieving high-level construction industry skills that can result in an exciting and lucrative career. With an emphasis on safety, students are taught to use hand and power tools, cut stock, apply construction mathematics, interpret blueprints, and understand basic rigging. Students will become proficient in identifying types of residential construction components to frame walls, floors, ceilings, roofs, doors, and windows. All students will obtain the required Construction Industry OSHA 10 safety credential. **Offered only at FHS.**

**Carpentry II** 860205

Credit: 2

Grade: 10-12

Prerequisite: Carpentry I

Carpentry II prepares students for successful transition into post-secondary education for careers in carpentry and related fields, such as construction management, architecture, and others. Students are taught the safe use of hand and power tools common to the industry to complement their Construction Industry OSHA 10 safety credential earned in Carpentry I. Students will become proficient in assembling and installing various types of residential construction components according to industry standards, including forming foundations, framing floors, walls, ceiling, roofs, trusses, roofing materials, stairs, and exterior doors and windows. **Offered only at FHS.**

**Electricity I** 853305

Credit: 1

Grade: 9-11

Prerequisite: None

Students develop skills in the installation, operation, maintenance, and repair of residential, commercial, and industrial electrical systems. They also study electrical theory; navigate the National Electrical Code Book; select and install conductors; and work with panel boards, switchboards, and generators. Students will take OSHA 10 for certification in this class. **Offered only at FHS.**

**Electricity II** 853405

Credit: 2

Grade: 10-12

Prerequisite: Electricity I

Students continue to develop skills in the installation, operation, maintenance, and repair of residential, commercial, and industrial electrical systems. They also study electrical theory and mathematical problems related to electricity; navigate the National Electrical Code Book; select and install conductors; examine lighting, communication, and power systems; and work with conduit and raceways, panel boards, switchboards, grounding systems, and generators. **Offered only at FHS.**

**Electricity III** 853505

Credit: 2

Grade: 11-12

Prerequisite: Electricity II

Through hands-on experiences, students continue building skills in the installation, operation, maintenance, and repair of electrical systems, with emphasis on industrial applications. They also study lighting fixtures, overcurrent protection, service equipment, motor controls, transformers, grounding, and the National Electrical Code (NEC) Book. **Offered Only at FHS.**

**Cosmetology I** 852705

Credit: 1

Grade: 10-12

Prerequisite: None

In this single-block course, students will combine classroom theory with hands-on techniques. The course is designed to expose students to a salon environment and various beginning and intermediate salon services. Students will receive 1.5 hours toward their Virginia State Board hours for each day in this course. Cosmetology students who are seniors will not complete this sequence in one year.

**Cosmetology II** 852805

Credit: 2

Grade: 11-12

Prerequisite: Grade of C or better in Cosmetology I

Fee: \$50

In this double-block course, students will combine classroom theory with hands-on techniques. The course is designed to expose students to a salon environment and various beginning and intermediate salon services. Students will receive 3 hours toward their Virginia State Board hours for each day in this course. Cosmetology II students who are seniors will not complete this sequence in one year.

**Cosmetology III Part I** 852905**Cosmetology III Part II** 852915

Credit: 2 each

Grade: 12

Prerequisite: Grade of C or better in Cosmetology II

Fee: \$50 for each part

In this double-block, year-long course, students will combine classroom theory with hands-on techniques. The course is designed to expose students to a salon environment and various intermediate and advanced salon services. This is a required course for students who are interested in pursuing cosmetology licensure. Students will receive 3 hours toward their Virginia State Board hours for each day in this course. Cosmetology III students are not eligible for Virginia Cosmetology Boards unless all competencies and requirements are completed.

**Drafting I** 853005

Credit: 1

Grade: 10-12

Prerequisite: Technical Drawing &amp; Design

Students explore drafting careers and are introduced to the theory and the manipulative skills necessary to produce and complete accurate drawings based on the ideas and sketches of engineers, architects, and designers. Students begin to focus on performing mechanical drafting and design operations, using CADD and 3D printing.

**Drafting II** 853115

Credit: 1

Grade: 10-12

Prerequisite: Drafting I

Students will master the theory and manipulative skills necessary to produce complete and accurate drawings, renderings, models, and prototypes of projects using industry standard drafting and design tools. This course is the second of two courses to prepare students to obtain professional drafting certification. Completers of the series will be able to take the professional industry certification test of the software used in the course.

**Fire Fighting** 870505

Credit: 2

Grade: 11-12

Prerequisite: Student must be 16 years of age by the first day of class and must be a member of a fire department or rescue squad

In this course, students will learn how the fire department works in emergency situations, gain knowledge to become a firefighter by acquiring the necessary skills for extinguishing house, vehicle, and wood fires. Upon completion of this course, students will be eligible to take the Virginia State Firefighter Exam administered by the Department of Fire Programs. Note: If a student is not a current member of a fire department or rescue squad, the student will be required to join after registering for this course. All students will be transported by FCPS to the Warrenton Rescue Squad. **Offered Off Site.**

**Graphic Design I 845805**

Credit: 1

Grade: 9-12

Prerequisite: None

This is an introductory course that will focus on graphic art and graphic design. Students will gain a basic understanding of different methods of communication using today's technology to prepare them for this industry. Students will be encouraged to participate in hands-on applications of word processing, web development, illustration and image editing. This course will primarily utilize computers as a tool to complete design projects as well as a sketchbook for planning.

**Graphic Design II 841505**

Credit: 1

Grade: 9-12

Prerequisite: Graphic Design I

This course will focus on page layout for both web design and print. Students will review content from Graphic Imaging I as well as learn ways to integrate that content into their level II designs. Greater emphasis will be placed on planning, copyright laws, critical thinking, color theory, design principals and group activity. Adobe certification will be offered at the end of the course for Illustrator, Photoshop and InDesign products. This course will primarily utilize computers as a tool to complete design projects as well as a sketchbook for planning.

**Graphic Design III 849705**

Credit: 1

Grade: 10-12

Prerequisite: Graphic Design II

This course will focus on multimedia production in the form of animation as motion design and video editing. Students will review content from Graphic Design I and II, while learning the production process and workflow. Adobe certification will be offered at the end of the course for all Adobe products. Students will also be encouraged to participate in film making both in front of the camera and behind the camera. Student material will be displayed on the course website using Adobe Spark. This course will primarily utilize computers as a tool to complete design projects as well as a sketchbook for planning. **Offered only at FHS.**

**Graphic Design IV 866305**

Credit: 1

Grade: 11-12

Prerequisite: Graphic Design III

This course will prepare students interested in the Graphic Art & Design industry for employment, apprenticeship, or post-secondary education. The course focuses on UX/UI design and development. Students will have an opportunity to create a useful app from start to prototype using a program called Adobe XD. Students may have an opportunity to work onsite with a real client to gain vital field experience. This course will focus on real world experiences, jobs, projects and deadlines. The course will also explore multimedia design in the form of film and film editing in addition to maintaining a website to showcase course work and build a digital portfolio. Adobe certification will be offered at the end of the course. This course will primarily utilize computers as a tool to complete design projects. **Offered only at FHS.**

## MILITARY SCIENCE



All Military Science courses will count toward meeting the one-credit graduation requirement for Fine Arts or Career and Technical Education.

The Army Junior ROTC program is an academic course for grades 9-12 of non-military secondary schools. Major subject areas in the curriculum are: leadership, citizenship, communication, history, and life management skills (physical fitness, first aid, self-esteem, health, drug abuse prevention, career opportunities, etc.). Other subjects include map reading, technology, command and staff functions, and the role of the U.S. Army in the nation's defense.

### Military Science Completer Sequence

Two of the following courses:

- Army JROTC I
- Army JROTC II
- Army JROTC III
- Army JROTC IV
- Army JROTC V
- Army JROTC VI
- Army JROTC VII
- Army JROTC VIII

### Credentialing Tests Offered to Completers in Military Science

Workplace Readiness Skills for the Commonwealth  
Armed Services Vocational Aptitude Battery  
Examination

### Military Science I (AJROTC) AR791305

Credit: 1

Grade: 9-12

Prerequisite: None

Students are introduced to the JROTC curriculum, and basic U.S. citizenship rights and responsibilities are established and reinforced. Students learn leadership, history, communication techniques, disciplined study habits, management skills, first aid, drug abuse prevention, map reading, physical fitness, and workplace readiness skills. Military customs and courtesies, proper uniform wear, and personal appearance guidelines are followed within the leadership lab, drill, and military ceremonies.

**Only offered at LHS.**

### Military Science II (AJROTC)

AR791605

Credit: 1

Grade: 9-12

Prerequisite: Military Science I

Students continue with the JROTC curriculum and basic U.S. citizenship rights and responsibilities are established and reinforced. Students learn to function as leaders at the squad level, history, communication techniques, disciplined study habits, management skills, first aid, drug abuse prevention, map reading, physical fitness, and workplace readiness skills. Military customs and courtesies, proper uniform wear, and personal appearance guidelines are followed within the leadership lab, drill, and military ceremonies. **Offered only at LHS.**

### Military Science III (AJROTC)

AR791805

Credit: 1

Grade: 10-12

Prerequisite: Military Science II

Students continue with the JROTC curriculum and basic citizenship rights and responsibilities are established and reinforced. Students learn to function as squad leaders and develop the ability to lead at the platoon level. Additionally, history, communication techniques, disciplined study habits, management skills, first aid, drug abuse prevention, map reading, physical fitness, and workplace readiness skills are emphasized. Cadets will become familiar with staff and command function and duties. Selected individuals will assume the roles of assistant staff officer. Military customs and courtesies, proper uniform wear, and personal appearance guidelines are followed within the leadership lab, drill, and military ceremonies. **Offered only at LHS.**

### Military Science IV (AJROTC)

AR791905

Credit: 1

Grade: 10-12

Prerequisite: Military Science III

Students advance in JROTC curriculum and basic U.S. citizenship rights and responsibilities are established and reinforced. Students learn to function as leaders at the platoon level and assume the roles of Platoon Leader and Platoon Sergeant. Additionally, history, communication techniques, disciplined study habits, management skills, first aid, drug abuse prevention, map reading, physical fitness, and workplace readiness skills are emphasized. Military customs and courtesies, proper uniform wear, and personal appearance guidelines are followed within the leadership lab, drill, and military ceremonies. Cadets can rise to the roles of principal staff officers on the battalion staff. **Offered only at LHS.**

**Military Science V (AJROTC)** AR792005

Credit: 1

Grade: 11-12

Prerequisite: Military Science IV

Cadets continue to develop leadership techniques with emphasis on assuming command and staff functions, as well as assuming those duties. Character, leadership development and theory, leadership application, foundations of success, wellness, and first aid are also included. Academic areas of geography, earth science, citizenship, and American history are emphasized and reinforced. Service-learning projects and community involvement are also covered at this level.

**Offered only at LHS.****Military Science VI (AJROTC)** AR792205

Credit: 1

Grade: 11-12

Prerequisite: Military Science V

Cadets continue to develop leadership techniques with emphasis on assuming command and staff functions, as well as assuming those duties. Character, leadership development and theory, leadership application, foundations of success, wellness, and first aid are also included. Academic areas of geography, earth science, citizenship, and American history are emphasized and reinforced. Service-learning projects and community involvement are also covered at this level.

**Offered only at LHS.****Military Science VII (AJROTC)** AR792405

Credit: 1

Grade: 11-12

Prerequisite: Military Science VII

Cadets experience the culmination of their JROTC experience by applying leadership theories and communication skills at the command and staff level in cadet-led classes. Cadets function as Company Commanders, principal staff officers, Battalion executive Officer, Command Sergeant Major, and Battalion Commander. Foundations of success, wellness, and first aid are addressed. Academic areas of geography, earth science, citizenship, and American History are emphasized and reinforced. Service-learning projects are implemented and community involvement is stressed with emphasis on group dynamics, human relations and U.S. issues.

**Offered only at LHS.****Military Science VIII (AJROTC)** AR792605

Credit: 1

Grade: 11-12

Prerequisite: Military Science VII

Cadets experience the culmination of their JROTC experience by applying leadership theories and communication skills at the command and staff level in cadet-led classes. Cadets function as Company Commanders, principal staff officers, Battalion executive Officer, Command Sergeant Major, and Battalion Commander. Foundations of success, wellness, and first aid are addressed. Academic areas of geography, earth science, citizenship, and American History are emphasized and reinforced. Service-learning projects are implemented and community involvement is stressed with emphasis on group dynamics, human relations and U.S. issues.

**Offered only at LHS.**

## ENGLISH



### Graduation Requirements

All students enrolled in English 11 will participate in required English End-of-Course (EOC) Writing and Reading SOL tests to earn 2 verified credits in English.

### Course Sequencing in English

Students must take their required English courses in this order: English 9, English 10, English 11, and English 12. Students should refer to course prerequisites for details. We strongly recommend that students take only one required English course per school year. If a student needs to repeat a required English course, the student may take two English courses during the same year but not during the same semester (unless the student is a senior).

**English 9** 113005  
Credit: 1 113003  
Grade: 9  
Prerequisite: None

The ninth-grade student will use multimodal tools to create presentations independently and in small groups. The student will continue to work in collaborative groups assisting with setting rules and working toward consensus. Students will analyze and interpret the social, commercial, and/or political motives behind media messages. The student will continue to expand vocabulary using the structural analysis of roots and affixes to understand complex words. The course continues to emphasize reading comprehension by comparing fiction and nonfiction texts. With fiction texts, students will apply knowledge of literary terms and analyze a variety of genres. There will be an increased emphasis on nonfiction reading, and students will make inferences and draw conclusions using explicit and implied textual evidence. They will plan, draft, revise, and edit while writing in a variety of forms and for a variety of audiences. There is an emphasis on analysis and persuasion while defending a position using counterclaims, reasons, and evidence from credible sources. Students will demonstrate correct use of language, spelling, and mechanics by applying grammatical conventions in writing and speaking. They will apply research techniques and create a product to analyze information gathered from diverse sources, identify misconceptions and bias, and cite both quoted and paraphrased information using either MLA or APA style.

### English 9 Honors

113017

Credit: 1

Grade: 9

Prerequisite: None

This course is recommended for students identified for Gateways services and other students who wish to work at an advanced level. It is an academically challenging course in which students are required to demonstrate comprehension of increasingly more challenging fiction and nonfiction texts and extend understandings through analytical writing and creative, multimodal products. The course will emphasize critical thinking and the synthesis of ideas from multiple texts, citing both quoted and paraphrased information using either MLA or APA style. The student will continue development of an advanced vocabulary including the skillful use of word choice in creating the nuances of tone and purpose. Students will learn pre-advanced placement (pre-AP) strategies that will help them analyze and interpret literary and rhetorical devices, as well as defending their own positions using counterclaims, reasons, and evidence from credible sources. Rhetorical study will also emphasize persuasive techniques in media messages. Emphasis is placed on oral and written communication skills including the ethical and legal guidelines for gathering and using information. A student's success in this challenging course is linked to the student's sense of responsibility and academic commitment.

**English 10** 114005  
Credit: 1 114003  
Grade: 10  
Prerequisite: English 9

The tenth-grade student will continue to become a skilled communicator, working both independently and collaboratively to present viewpoints, work toward common goals, and create multimodal presentations. The student will create media messages and analyze the cause and effect relationships between mass media coverage and public opinion trends. The student will continue development of vocabulary with attention to connotations, idioms, classical allusions, and figurative language. The course continues to emphasize reading comprehension by comparing fiction and nonfiction texts. Students will analyze the cultural and social functions, as well as the universal themes, of fictional texts from different cultures. Students will analyze and synthesize information from nonfiction texts to solve problems, answer questions, and generate new knowledge. They will plan, draft, revise, and edit while writing in a variety of forms and for a variety of audiences with an emphasis on analysis and persuasion. They will learn how to write persuasively through thoughtful analysis of the relationships among claims, reasons, and evidence from reliable sources. Students will expand their knowledge of grammar as they prepare presentations, write, and edit material, applying the conventions of language. They will apply research techniques and create a product to analyze information gathered from diverse sources, identify misconceptions and bias, and cite both quoted and paraphrased information using either MLA or APA style.

**English 10- Environment in Literature 114055**

Credit: 1

Grade: 10

Prerequisite: English 9

Environment in Literature is a cross-curricular course designed for a tenth-grade student who has an interest in environmental studies. In addition to the content outlined in the English 10 curriculum, Environment in Literature students will be introduced to multiple genres of contemporary nature writing and environmental literature. Some topics include, but are not limited to: the role of literature in how we perceive and conceptualize nature, earth as literary setting and stage but also as a relationship between landscape and story, and more. This course can be taken in place of English 10 in order to fulfill the graduation requirement. This course is required for Environmental Studies Students. **Offered at FHS only.**

**English 10- Reading and Writing 114065****Across STEM Disciplines**

Credit: 1

Grade: 10

Prerequisite: English 9

English 10: Reading and Writing across STEM Disciplines is a cross-curricular course designed for a tenth-grade student who has an interest in STEM-based careers. In addition to the content outlined in the English 10 curriculum, English 10: Reading and Writing across STEM Disciplines students will be introduced to technical writing, scientific writing and reviews, audience awareness, and more. Students may take this course in place of English 10 in order to fulfill the graduation requirements. **Offered only at KRHS.**

**English 10 Honors 114017**

Credit: 1

Grade: 10

Prerequisite: English 9 or English 9 Honors

This course is recommended for students identified for Gateways services and other students who wish to work at an advanced level. It is an academically challenging course in which students are required to demonstrate comprehension of increasingly more challenging fiction and nonfiction texts and extend understandings through analytical writing and creative, multimodal products. The course will emphasize critical thinking and the synthesis of ideas from multiple texts, citing both quoted and paraphrased information using either the MLA or APA style. The student will continue development of an advanced vocabulary including the skillful use of word choice creating the nuances of tone and purpose. Students will learn pre-advanced placement (pre-AP) strategies that will help them analyze and interpret literary and rhetorical devices, as well as defending their own positions using counterclaims, reasons, and evidence from credible sources. Rhetorical study will also emphasize persuasive techniques in media messages. Emphasis is placed on oral and written

communication skills including the ethical and legal guidelines for gathering and using information. A student's success in this challenging course is linked to his/her sense of responsibility and academic commitment.

**English 11**

115005

Credit: 1 **SOL**

115003

Grade: 11

Prerequisite: English 10

The eleventh-grade student continues to build communication skills independently and in collaborative groups. Students will continue to demonstrate the ability to work within collaborative groups to share viewpoints and work toward common goals. They will create persuasive, multimodal presentations that address alternative perspectives. They will create media messages and analyze the cause and effect relationships between mass media coverage and public opinion trends. The student will continue development of vocabulary with attention to connotations, idioms, classical allusions, and figurative language. There is a sustained emphasis on reading comprehension of fiction and nonfiction texts. Students will conduct comparative analyses of multiple texts that address the same topic to determine how authors reach similar or different conclusions. They will examine and analyze fiction texts by American authors describing the contributions of other cultures and identifying prevalent themes and characterizations, which are reflective of American history and culture. Students will continue to use the writing process to write/compose with an emphasis on persuasion/argumentation for multiple purposes and audiences, creating focused, organized, and coherent writing. The eleventh-grade student will demonstrate advanced knowledge of grammatical conventions. The student will produce a research product synthesizing information from primary and secondary sources while maintaining ethical and legal guidelines for gathering and using information.

**English 11: Language and Composition AP 119628**Credit: 1 **SOL AP DE**

Grade: 11

Prerequisite: English 10 or English 10 Honors

English 11 AP is designed for students who are interested in college-level content with emphasis on language, rhetoric, and expository writing. Critical reading and writing with attention to the nuances of language, stylistic distinction, and audience are the backbone of the curriculum. Class work involves extended reading assignments that invite and require revisiting, and writing assignments that must reflect the process of planning, prewriting, composition, and revision. The course focuses primarily on the analysis of non-fiction readings. Students may be asked to prepare for this course by completing pre-course assignments. Students have the option of earning dual enrollment (DE) credit for this course.



**English 12** 116005  
 Credit: 1 116003  
 Grade:12  
 Prerequisite: English 11

The twelfth-grade student will continue to demonstrate the ability to work within diverse teams working toward common goals. Students will create persuasive/argumentative multimodal presentations both independently and in collaborative groups. They will create media messages and analyze the cause and effect relationships between mass media coverage and public opinion trends. The student will continue development of vocabulary with attention to connotations, idioms, classical allusions, and figurative language. There is a sustained emphasis on reading comprehension of fiction and nonfiction texts to identify and evaluate resources to make decisions and problem solve. Students will examine and analyze fiction texts from other cultures, including British literature. They will evaluate how authors use key elements to contribute meaning and interpret how themes are connected across texts. Students will conduct comparative analyses of multiple texts that address the same topic to determine how authors reach similar or different conclusions. Students will write to a standard acceptable in both the workplace and postsecondary education. The student will produce a research product synthesizing information from primary and secondary sources while maintaining ethical and legal guidelines for gathering and using information.

**English 12: Literature & Composition AP** 119518  
 Credit: 1 **AP DE**  
 Grade: 12  
 Prerequisite: English 11 or  
 English 11 AP/DE (for DE Credit)

English 12 AP is designed to give high school students a collegiate experience in English. The course provides a unique academic challenge and emphasizes independent learning. Students read and analyze poems, plays, several novels, and essays in a student-centered environment that requires commitment and responsibility. Students work independently and cooperatively to compose prepared papers, journals, and impromptu writings, and to create extensive projects. Students may be asked to prepare for this course by completing pre-course assignments. **Students have the option of earning dual enrollment (DE) credit for this course if they dual enrolled in English 11: Language and Composition AP or if a waiver is sought and granted by Richard Bland College.**

## **ENGLISH ELECTIVES**

### **AP Seminar 221108**

Credit: 1  
Grade 10-11  
Prerequisite: None

This College Board approved course allows students to research and explore real world issues and learn how to plan and conduct research-based investigations. Students engage in team projects and eventually conduct individual in-depth research. Students learn collaborative teamwork, communication skills, and research skills. Students who successfully complete the course and the subsequent independent research course (AP Research) the following year have the ability to receive the "AP Capstone Diploma" upon successful completion of three other AP exams. Students in the Fauquier Environmental Studies Academy, who wish to earn either the FESA Honor Medal or FESA Merit Medal, have the option of taking this course to assist in satisfying the requirement for research presented in "a formal, juried setting." The AP Research course would need to be successfully completed, as well.

### **AP Research 011058**

Credit: 1  
Grade: 11-12  
Prerequisite: AP Seminar

AP Research allows students to explore an academic topic, problem, or issue of individual interest in greater depth. In the classroom and independently (while possibly consulting with expert advisors in the field), students learn and employ research and inquiry methods to develop, manage, and conduct an in-depth investigation of an area of personal interest. Through this exploration, students design, plan, and conduct a yearlong investigation to address a research question, and the course culminates in an academic paper of 4,000-5,000 words and a presentation with an oral defense. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio.

### **Creative Writing I 117105**

Credit: 1  
Grade: 9-12  
Prerequisite: None

This course is for the serious student who is interested in writing poetry and prose. Emphasis is placed on allowing students to explore many forms of writing, which may include children's literature, personal narratives, observation writing, historical writing, and various forms of poetry. Emphasis is placed on structure and creativity in writing. Many assignments are produced outside class. Students are encouraged to submit writings to essay contests or publications.

### **Creative Writing II 117205**

Credit: 1  
Grade: 10-12  
Prerequisite: Creative Writing I

This course is a continuation of Creative Writing I. It is designed as further support for the serious student who is interested in writing poetry and prose. Emphasis is placed on authorship and the trade of writing. Methods used include writing workshops. Many assignments are produced outside class. Students are expected to participate in the publication process, which may include the school's literary magazine.

### **English SOL Preparation 117703**

Credit: 1  
Grade: 11-12  
Prerequisite: None

This academic support course is for students who need additional work on organizing, developing, and editing a well-structured composition and on reading strategically for a variety of purposes. Instruction and learning activities include lessons that enhance and improve narrative and expository writing; the reading of technical, nonfiction, and fiction writing; and the study of the conventions of sentence formation, usage, and mechanics. Students follow the evaluation rubric used for the English EOC Writing SOL test and the reporting categories for the English EOC Reading SOL test.

### **Film Study 144605**

Credit: 1  
Grade: 10-12 Students in Grade 9 may be admitted with parent and teacher approval.  
Prerequisite: None

In this course students study cinema as an art form. Topics for study include the history of film; similarities and differences among film, theatre, and literature; criteria for evaluating a film; the technology and terminology of film study; and historical contexts of film. Specific requirements include extensive reading, writing, research, and discussion.

### **Individualized Reading I 118103**

Credit: 1  
Grade: 9-12  
Prerequisite: None

This academic support class is designed to help students become more effective readers by developing cross-disciplinary reading and study skills to improve students' academic success. Through whole-group and small-group instruction and individually designed reading portfolios, students receive explicit lessons on vocabulary development and comprehension strategies that encourage engagement with the text. Students read both fiction and nonfiction materials. The course is based on each student's individual needs, goals, and interests, with the goal of building reading fluency.

**Individualized Reading II** 118203

Credit: 1

Grade: 9-12

Prerequisite: Individualized Reading I

This academic support class is a continuation of Individualized Reading I and is designed to help students become more effective readers by developing cross-disciplinary reading and study skills to improve students' academic success. Through whole-group and small-group instruction and individually designed reading portfolios, students receive explicit lessons on vocabulary development and comprehension strategies that encourage engagement with the text. Students read both fiction and nonfiction materials. The course is based on each student's individual needs, goals, and interests, with the goal of building reading fluency.

**Journalism I** 120005

Credit: 1 Grade: 9-12

Prerequisite: Grade C or better in English course

This course offers an overview of journalism including the role of the press and laws/ethics that pertain to the field. Every phase of reporting and writing the news is covered: sources for news; how to conduct a successful interview; how to write and organize a news story; and the fundamentals of broadcasting. Sports reporting, editorials, features, and columns are addressed. Writing for the school paper or news website may be required, and students need to complete work after school.

**Journalism II** 121005

Credit: 1

Grade: 9-12

Prerequisite: Grade of C or better in a previous Journalism course

This course is designed for students who wish to refine skills in feature, editorial, sports writing, and broadcasting if appropriate. In addition to writing for the school newspaper or news website, students learn the mechanics of newspaper production, how to sell and design ads, and how to compose and take a quality photograph. Students may need to complete work after school.

**Journalism III** 121105

Credit: 1

Grade: 10-12

Prerequisite: Grade of C or better in a previous Journalism course

This course is designed for students who want to continue to refine their writing and, if appropriate, their broadcasting skills. Students are required to write an in-depth article. They also learn the elements of successful page or webpage design. They produce pages of the school newspaper using a program such as In Design. They work with Journalism IV students to learn about production and the various staff positions. Students may need to complete work after school.

**Journalism IV** 121205

Credit: 1

Grade: 10-12

Prerequisite: Grade of C or better in previous Journalism course

This course is designed for students who wish to obtain a position on the newspaper staff. Students refine skills previously learned in other classes, including writing skills, editing skills, page layout, and design. They also work closely with editors of the school newspaper or news website to allow smooth functioning of school news publications and broadcasts, if appropriate. Students will need to complete work after school.

**Media Literacy** 106205

Credit: 1

Grade: 10-12

Prerequisite: None

Students will study the influence of mass media on contemporary American culture. Students will learn to access, analyze, and evaluate media to develop critical thinking skills. One area of focus will be the increased role of social media in today's culture through the examination of ethics, internet safety, and privacy rights. Students will be required to write extensively, read independently, conduct research projects, and create multi-media productions.

**Mythology** 116505

Credit: 1

Grade: 10-12

Prerequisite: None

In this course students explore the definition and functions of classical mythology, compare and contrast elements of different mythologies, and study the influence of mythology on various art forms, such as poetry, fiction, drama, and art. Specific requirements include extensive reading, writing, research, discussion, and the creation of hands-on projects.

**Photojournalism I** 121505

Credit: 1

Grade: 9-12

Prerequisite: Grade of C or better in previous English course

This course prepares students to design and produce a first-class yearbook. Students are trained in desktop publishing, writing, photo journalism, marketing, design, and public relations. Staff members work independently and cooperatively to create the school yearbook. Due to the extensive amount of work involved in this process, students must be available to stay after school several days throughout the term. Specific after-school requirements may be set by the instructor. Students must be able to conduct interviews and work independently.

**Photojournalism II 121605**

Credit: 1

Grade: 9-12

Prerequisite: Grade of C or better in previous Photojournalism course

Extensive writing, editing, page design, marketing, and photography are required in this course. Students will serve as yearbook staff members throughout the span of this course. Staff members will work cooperatively to help create the school yearbook. Due to the extensive amount of work involved in this process, staff members must be available to stay after school several days throughout the term. Specific after-school requirements may be set by the instructor. Students must be able to work independently.

**Photojournalism III 121705**

Credit: 1

Grade: 10-12

Prerequisite: Grade of C or better in previous Photojournalism course

This course extends concepts from Photojournalism II. Students enrolled in this course may be chosen to serve as section editors for the school's yearbook. A section editor's duties include extensive writing, proofreading, page design, photography and marketing. Additionally, section editors are required to lead and organize section staff meetings and assist in the training of staff members. Editors must be available to stay after school when needed.

**Photojournalism IV 122005**

Credit: 1

Grade: 10-12

Prerequisite: Grade of C or better in previous Photojournalism course

This course extends concepts from Photojournalism III. Students enrolled in this course may be chosen to serve as section editors for the school's yearbook. Responsibilities include extensive writing, proofreading, page design, photography, marketing, and theme development. Additionally, section editors are required to lead and organize section staff meetings and assist in the training of staff members. Editors must be available to stay after school when needed. Students may be required to attend local and national workshops and meetings in addition to yearbook staff meetings.

**Public Speaking**

130005

Credit: 1

Grade: 9-12

Prerequisite: None

This course offers students an opportunity to write and present various types of speeches, oral readings, and debates. Instructional focus is on various oral communication topics, which may include persuasive speaking and oral interpretation of literature. Specific attention is given to quality speech writing, debate preparation, and effective oral presentation of material. Students complete several prepared speeches and debates, one of which may be presented to a selected audience outside of the class.

**SAT Reading/Writing and Language And Math Prep 012905**

Credit: 1

Grade: 11-12

Prerequisite: English 9&amp;10, Algebra I, Geometry &amp; Algebra II

The verbal portion of this course is designed to help motivated students develop strategies for improving scores on college entrance exams. The course work includes daily vocabulary work and intensive practice with multiple-choice, critical reading and writing. Students develop the following evidence-based reading and writing skills: command of evidence; words in context; analysis in history/social studies and in science; expression of ideas; and standard English conventions. Students take several practice SAT tests throughout the course. Students also explore the college application process. A materials fee will be charged.

## ENGLISH AS A SECOND LANGUAGE



The courses listed in this section are available specifically for students who have been identified as English Learners (EL). They provide access to the general content areas and are specifically designed to meet the linguistic needs of ELs. English as a Second Language (ESL) courses are offered to any student needing assistance in developing English language proficiency. The courses are designed to support content instruction through comprehensible language input and to assist ELs in achieving content standards in preparation for end-of-year SOL tests.

In addition to the courses listed below, assistance may be provided in the regular classroom. "In classroom" assistance will be made available as needed to determined by the Counseling Department and ESL staff at each high school.

### Native or Heritage Speakers

A student who is a native or heritage speaker of a language other than English may receive up to two world language credits by demonstrating a minimum proficiency level of novice high in all four language domains as determined by a proficiency assessment administered by the school division. The student may then be placed in a level II or III language course to complete the series of three world language credits required for the Advanced Studies and Advanced Technical Diplomas.

### ESL Content Support in English 571003

Credit: 1  
Grade: 9-12  
Prerequisite: None

This course is designed to support ESL students who are also enrolled in English 9 or English 10. Special focus is given to understanding the vocabulary within context-embedded material. Emphasis is placed on developing oral, reading, and written communication skills.

### ESL Content Support in Social Studies 573003

Credit: 1  
Grade: 9-12  
Prerequisite: None

This course is designed to support ESL students in World History I, World History II, U.S. History, or U.S. Government. Special focus is given to understanding vocabulary within context-embedded material. This course should be taken before or along with other Social Studies courses to prepare for the End-of-course test or course performance assessments.

### ESL Resource

573013

Credit: 1  
Grade: 9-12  
Prerequisite: None

In this course, emphasis is placed on developing English proficiency through the use of various content-related materials that focus on listening, speaking, reading and writing. This course can be tailored to student language level and content support needs.

### ESL Content Support in Mathematics 573103

Credit: 1  
Grade: 9-12  
Prerequisite: None

This course is designed to reinforce general numeric topics, such as whole numbers, fractions, decimals, and percents, as well as basic geometric concepts, such as perimeter and area. The class is prescriptive in nature, emphasizing hands-on learning. Instruction is scaffolded to make content accessible to English language learners. Class size is limited. Students in this course who have not passed the Grade 8 Mathematics SOL assessment will take this test at the end of the course.

### ESL Reading

572003

Credit: 1  
Grade: 9-12  
Prerequisite: None

This course is designed to help English learners become more effective readers of English. Emphasis is placed on comprehension, vocabulary development, pronunciation, and phonics skills. Students develop oral and silent reading skills. Instruction in this course is differentiated to meet the needs of students at all language levels.

## **FINE ARTS**

### **ART**



All art courses will count toward meeting the one-credit fine arts or Career and Technical education requirement for graduation.

#### **Art I 912005**

Credit: 1

Grade: 9-12

Prerequisite: None

Art I is offered to students who have not taken art at the high school level. It focuses on art appreciation, history, and written and verbal critiques as they relate to art/design elements and principles. Students explore design, drawing, painting, print making, commercial design, and three-dimensional activities. A sketchbook is required and maintained by students for both in-class and out-of-class use. Students maintain a portfolio. Student work will be displayed at the discretion of the art teacher. This class is a foundation class and is a requirement for all visual arts classes.

#### **Art II 913005**

Credit: 1

Grade: 10-12

Prerequisite: Art I (Not Functional Art I)

This course is for students interested in pursuing advancement in art. Students refine critical thinking and artistic skills developed in Art I and have an in-depth exploration of media. Students further develop their skills in figure drawing, perspective, commercial design, print making, mixed media, and 3-dimensional activities. Students will continue their investigation of artists, art styles, and art criticism. Students are required to maintain a sketchbook and a portfolio in preparation for advanced art classes. Student work will be displayed at the teacher's discretion.

#### **Art III (2-Dimensional Design) 914005**

Credit: 1

Grade: 10-12

Prerequisite: Art II

This studio course is designed for the serious art student. Students work with advanced techniques in painting, drawing, print making, and commercial design. The study of artists and periods of art are incorporated into assignments. Students learn to present their work for display. Students are required to maintain a sketchbook and an extensive portfolio. Student work will be exhibited throughout the term.

#### **Art III (3-Dimensional Design)**

**914035**

Credit: 1

Grade: 10-12

Prerequisite: Art II or Functional Art II

This is a studio course devoted solely to 3-dimensional art forms. This course works in materials such as clay, plaster, wood, stone, paper mâché, fiber arts, basketry, and metals in both additive and subtractive methods. Art history and appreciation are used to enrich student understanding of working in sculpture and pottery. Students will be encouraged to keep a photographic record for their portfolio. Sketchbooks are required and student work will be exhibited throughout the term.

#### **Art IV**

**914505**

Credit: 1

Grade: 10-12

Prerequisite: Art III (2-Dimensional Design)

This course is designed for the serious art student who would like to continue with art or to prepare for AP Studio Art. Students are expected to be self-directed and self-motivated in order to develop a portfolio. Students are expected to set personal goals as well as work on specific assignments developed to enhance traditional skills. Students work with the teacher to develop an area of concentration for their artwork. Work outside of class may be necessary. Students prepare and display their work and maintain a sketchbook. Depending on enrollment, this class may be offered on-line.

#### **Studio Art AP**

**914908**

Credit: 1

Grade: 11-12

Prerequisite: Art III, Art IV, or Photography II and Portfolio assessment

This class is designed for the highly motivated art student who strives to earn college-level credits. This class requires a portfolio to be submitted to the College Board consisting of 15 images based on your chosen sustained investigation and 5 images of selected works. The student's work must demonstrate a self-guided artistic investigation through practice, experimentation, and revision. Students may submit a portfolio in 2D Drawing (mark marking), 2D Design (graphics/photography) or 3D sculpture. Some work must be completed outside of class and students will be responsible for a portion of their materials.

#### **Functional Art I**

**912035**

Credit: 1

Grade: 9-12

Prerequisite: None

This course is offered to students who are interested in handcrafts. It focuses on crafts, their history and origins, understanding of aesthetics, and the use of the elements and principles of design as they relate to functional art.

Critique and self-evaluation are a part of each assignment. The focus is on craftsmanship in the areas of fiber arts, ceramics, jewelry/wearable art, glass-beaded projects, applied design, and bookmaking. Students maintain a journal, and their work will be displayed throughout the term. A materials fee will be charged. This class may not be substituted for Art I.

### **Functional Art II** 913035

Credit: 1

Grade: 9-12

Prerequisite: Functional Art I

This is a continuation of Functional Art I. Students focus on more advanced processes including fiber arts, ceramics, glass, jewelry, and bookmaking. Students use elements and principles of design with special emphasis on surface design. Students research specific processes and their origin and history. Students create a journal for self-evaluation, critique, and planning. Student work will be displayed at the teacher's discretion. A materials fee will be charged for this class. This class may be used as a prerequisite for Art III 3-D.



### **Photography I** 919005

Credit: 1

Grade: 11-12 (Grade 10 with a successful completion of Art I and recommendation of art teacher.)

Prerequisite: None for Grade 11 and 12 (Grade 10 must complete Art I and have recommendation from their art teacher.)

Photography I is structured to give each student hands-on experience using a manual SLR camera, developing black and white film, and making photographic prints and enlargements in the darkroom. Students learn special darkroom techniques and manipulations. Quality photographic composition is emphasized. School cameras are available for classroom use but having a personal camera is encouraged. A photography portfolio will be established and student work will be exhibited throughout the term. A materials fee is due at the beginning of the term.

### **Photography II** 919105

Credit: 1

Grade: 11-12

Prerequisite: Photography I

Photography II is geared toward the serious photography student. Students continue to expand their knowledge of the manual SLR camera, black and white film, and darkroom techniques. Students learn advanced camera control and darkroom manipulations. Students are encouraged to include other processes to expand their photographic experience, which may include computer

manipulations. Students continue to maintain a sketchbook/journal and develop their portfolios. A materials fee is due at the beginning of the term.

### **Photography III**

919205

Credit: 1

Grade: 11-12

Prerequisite: Photography II

Photography 3 is geared toward the serious photography student with the goal of submitting an AP portfolio, going to an undergrad art school, or pursuing photography as a career. Students continue to expand their knowledge of the manual SLR camera, black and white film, and darkroom techniques. Students learn advanced camera control and darkroom manipulations. Students are encouraged to include other processes to expand their photographic experience, which may include computer manipulations. Students continue to maintain a sketchbook/journal and develop their portfolios. A materials fee is due at the beginning of the term.

### **Art History AP**

915108

Credit: 1 **AP**

Grade: 11-12

Prerequisite: None

The Advanced Placement offering in Art History is designed to provide the student with an understanding and knowledge of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. Students examine and critically analyze major forms of artistic expression from the past and the present from a variety of cultures. While visual analysis is the fundamental tool of the art historian, art history also emphasizes understanding works in context, considering such issues as patronage, gender, and the functions of and effect of works of art. Students will be required to work outside of class. This class may be offered online.

## MUSIC



### Graduation Requirements

All music courses count toward meeting the one-credit fine arts or Career and Technical Education graduation requirement.

#### **Music Theory I** 922505

Credit: 1

Grade: 10-12

Prerequisite: None

This course is open to students who are interested in learning a wide variety of skills, necessary to be a well-educated musician, skills that cannot adequately be taught in a music performance class. This course of study includes musical dictation, scales and intervals, music analysis, vocal and instrumental arranging, compositional techniques, and related computer technology.

#### **Music Theory II** 922535

Credit: 1

Grade: 11-12

Prerequisite: Grade of C or better in Music Theory I

This course is an extension of Music Theory I. More independent work is expected. Music Writing assignments include longer forms and more complex harmonies than in Music Theory I. Student creativity is encouraged. One major original composition is assigned as a project. These compositions will be performed at a concert at the school, if possible.

#### **Symphonic Choir** 928505

Credit: 1

Grade: 9-12

Prerequisite: None

Symphonic Choir is open to all interested students in any grade. A wide variety of choral literature is studied and performed during the term. Students learn basic singing technique, sight-singing skills, and ensemble skills. Students perform concerts at school, in the community, and are invited to participate in division-wide events that are held outside of school hours.

#### **Treble Choir** 928015

Credit: 1

Grade: 9-12

Prerequisite: Audition required or recommendation from previous teacher

Treble Choir provides experiences for students who are proficient in choral singing and who desire to develop their skills to a higher degree. This course also stresses a study

of various styles of treble (Soprano/Alto) choral literature and music theory, as well as refined ensemble performance. Students will perform concerts at school, in the community, and are invited to participate in division-wide events. Students may be expected to devote additional time to preparation and technical instruction as there are frequent opportunities for events held outside of school hours.

#### **Mixed Choir**

928005

Credit: 1

Grade: 9-12

Prerequisite: Audition required or recommendation by previous teacher

Mixed Choir provides experiences for students who are proficient in choral singing and who desire to develop their skills to a higher degree. This course stresses a study of various styles of mixed (Soprano, Alto, Tenor, Bass) choral literature and music theory, as well as refined ensemble performance. Students perform concerts at school, in the community, and are invited to participate in county- and district-wide events. Students may be expected to devote additional time to preparation and technical instruction as there are frequent opportunities for events to be held outside of school hours.

#### **String Orchestra**

923805

Credit: 1

Grade: 9-12

Prerequisite: Previous experience or recommendation by previous teacher

String Orchestra is open to string players (violin, viola, cello, and double bass) with three or more years of prior experience or with permission of the instructor. A wide variety of string orchestra literature is studied and performed during the term. Students learn basic to intermediate playing technique, sight-reading skills, and ensemble skills. Students perform concerts at school, in the community, and are invited to participate in extra-curricular division-wide events. Note: A rental fee for school-owned instruments is required.

#### **Chamber Orchestra**

923905

Credit: 1

Grade: 9-12

Prerequisite: Audition required or recommendation from previous teacher

Chamber Orchestra provides experiences for students who are proficient on their instruments and who desire to develop their skills to a higher degree. This course stresses a study of various styles of string orchestra literature and music theory, as well as refined ensemble performance. Students perform concerts at school, in the community, and participate in county-wide and district-wide events. Students must devote additional time to preparation and technical instruction as there are frequent opportunities for events outside of school hours. Note: A rental fee for school-owned instruments is required.



**Concert Band 923205**

Credit: 1

Grade: 9-12

Prerequisite: None

This course provides an opportunity for high school students who were not able to begin band in the 6th grade to learn to play an instrument. Emphasis is on basic music fundamentals on the student's specified instrument. The class may perform concerts at school and in the community, which may require after-school rehearsals. Students are expected to secure their own instruments. A rental fee for school-owned instruments is required.

**Symphonic Band 923305**

Credit: 1

Grade: 9-12

Prerequisite: None

Students will study and perform music literature of grade levels III and IV. Individual performance on a chosen instrument is stressed. At the end of the course, those students who have made significant progress are encouraged to audition for Wind Ensemble. Students perform concerts at school and in the community, which may require after-school rehearsals. A rental fee for school-owned instruments is required.

**Wind Ensemble 925005**

Credit: 1

Grade: 9-12

Prerequisite: Audition required

Wind Ensemble provides experiences for students who are proficient on their instruments and who desire to develop their skills to a higher degree. This course stresses a study of various styles of band literature and music theory, as well as refined ensemble performance. Students perform concerts at school, in the community, and participate in the District Festival/Solo and Ensemble. Students must devote much time and preparation and technical instruction; there will be frequent night rehearsals. A rental fee for school-owned instruments is required.

**Guitar Ensemble 924505**

Credit: 1

Grade: 9-12

Prerequisite: None

Guitar Ensemble is open to any student, grades 9-12, regardless of previous guitar experience. Each student will provide his/her own guitar to be used at school and home. Instruction will include, but not limited to, the following: tuning of instrument, right and left-hand positions, 1st position cords (keys of C, G, D, A, am, em), major, minor and chromatic scales, strumming and broken chord patterns, 12-bar blues, reading traditional notation to play simple diatonic melodies, reading guitar, tablature, improvisation, and composition. At least one formal concert will be required each semester with optional performance opportunities offered. A material fee will be collected for purchase of the instruction book.

**Caribbean Steel Pans Band**

924405

Credit: 1

Grade: 9-12

Prerequisite: None

Caribbean Steel Pans Band is open to any student, grade 9 - 12, regardless of previous musical experience. Students will learn to perform on the four types of Pans: Tenor Pans, Double-Seconds, Triple Guitar, and Bass Pans. Additionally, students will learn to perform on the various instruments used in the "Engine Room." With the focus on performing, students will learn the correct techniques to perform on all of the instruments, the correct styles for the various forms of music performed, and the historical significance of the music and instruments in Trinidad and Tobago, the Caribbean, and the world. There are at least two required concerts outside of the school day with additional chances to perform throughout the term. There are no fees; all materials are provided. **Offered at FHS only.**

## THEATRE



### **Theatre I: Introduction** 141005

Credit: 1

Grade: 9-12

Prerequisite: None

This course covers basic dramatic principles such as theatre history, stage movement, voice projection, and memorization of dialogue. This course requires students to read several works and write frequently about topics and plays discussed in class. Performance is a major aspect of this course. The performance genres extend to dramatic monologue and short ensemble pieces. Students are expected to attend theatrical productions.

### **Theatre II: Dramatic Literature & Theatre History** 142005

Credit: 1

Grade: 10-12

Prerequisite: Theatre I

This course includes the study of theatre genres from Ritual through after the Renaissance to the present. Topics of study focus on styles of acting and voice and body techniques. Students are expected to attend theatrical productions and participate in theatre on some level. This course requires students to read several works and write frequently about topics and plays discussed in class.

### **Theatre III: Advanced Theatre Studies** 142305

Credit: 1

Grade: 11-12

Prerequisite: Grade of C or better in Theatre II

This course is designed to assist developing theatre artists in honing their craft. The course assists students who intend to study theatre at the college level. Topics of study include technical theatre, dramaturgy, auditioning, and an introduction to directing.

### **Theater IV: Advanced Performing & Directing** 142605

Credit: 1

Grade: 11-12

Prerequisite: Grade of C or better in Theatre III

Theatre IV will help students refine concepts learned and skills acquired in Theatre III while reinforcing principles learned in Theatre I & II. The Theatre IV student will develop an artistic vision and develop a personal aesthetic through advanced research, performance, and evaluation. Students will benefit from exposure to different types of theatrical techniques and opportunities to direct the performance of others (either in scenes or in full production).

### **Technical Theatre** 143505

Credit: 1

Grade: 10-12

Prerequisite: Theatre I or recommendation from teacher

Technical Theatre will introduce the first-year technician to the areas of stagecraft and theatrical production. Students will build, paint, climb ladders, lift things, and handle power tools in this class. Students will be introduced to the following topics: Theatre safety, stage elements, properties, costumes, make-up, set construction, lights, sound, stage management, tools & equipment, and scenic painting. Students must participate backstage once per term. Analysis of the production experience will be intrinsic to the experience of the course.

## HISTORY AND SOCIAL SCIENCE



### Graduation Requirements

Students earn 4 credits in History and Social Science by completing World History I, World History II, VA/US History and VA/US Government. Students must earn 1 verified credit in History and Social Science by participating in performance assessments.

### Course Sequencing

History and Social Science courses are taken in the following order with no more than two courses taken in one year:

- World History and Geography to 1500 (World History I)
- World History and Geography 1500 to Present (World History II)
- Virginia/United States History
- Virginia/United States Government

### World History and Geography to 1500 221505

Credit: 1 **SOL** 221533

Grade: 9

Prerequisite: None

This course begins with an introduction to the Paleolithic era, the agricultural revolution, the ancient river valley civilizations, and the cultures of Persia, India, and China. It continues with a study of ancient Greece and Rome, as well as the Byzantine Empire, Russia, and the Islamic civilizations. Also included is a study of the ancient Eastern hemisphere cultures and the Mayan, Aztec, and Incan Civilizations. It concludes with a study of the Middle Ages and the Renaissance in Europe.

### World History and Geography to 1500 Honors

Credit: 1 **SOL** 221517

Grade: 9

Prerequisite: None

This is the first part of a two-course sequence designed to prepare students for the AP World History exam. The course covers both the AP curriculum and the Virginia SOLs. It includes a study of the Paleolithic era; the agricultural revolution; the ancient river valley civilizations; the cultures of Persia, India, and China, the civilizations of ancient Greece and Rome; the Byzantine Empire; Russia; the Islamic civilizations, the ancient Eastern hemisphere cultures; and the Mayan, Aztec, and Incan civilizations. It concludes with a study of the Middle Ages and the Renaissance in Europe.

### World History and Geography 1500 to Present

Credit: 1 **SOL** 221605

Grade: 10 221633

Prerequisite: World History I

This course begins with a study of the Reformation, the Age of Discovery, and the impact of global trade. It continues with a study of science, politics, economics, and religion in 16<sup>th</sup>, 17<sup>th</sup>, and 18<sup>th</sup> century Europe; politics in 19<sup>th</sup> century Europe, the Industrial Revolution; World War I; World War II; and the Cold War. It concludes with a study of the globalized world in the 21<sup>st</sup> century.

### World History: Modern AP

238008

Credit: 1 **SOL AP DE**

Grade: 10

Prerequisite: World History I

AP Modern World History is a rigorous, college-level course designed to give students an introductory college-level modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. A special emphasis is given to preparation for the AP Exam, including historical writing through essay and document-based questions, (DBQ) as well as objective evaluations. Supplemental readings in addition to the basic text are required, and students may be asked to prepare by completing pre-course assignments. This course meets the requirement for History 112 through Laurel Ridge Community College, a survey of Asian, African, Latin American and European civilizations from the 13<sup>th</sup> Century to the present. Students who do not pay the dual enrollment tuition charge will not receive a college credit from LRCC. AP credit is dictated by college admissions and the College Board.

### Virginia and United States History 236005

Credit: 1 **SOL** 236033

Grade: 11

Prerequisite: World History I and World History II

Virginia and U.S. History is a study of the history of the United States from the perspective of political, social, cultural, economic, and geographical growth. The focus is on American character and institutions. The primary role that Virginia plays in the development of the United States is emphasized through study of important events and people of the commonwealth.

**United States History AP** 231918Credit: 1 **SOL AP DE**

Grade: 11

Prerequisite: World History I and World History II

This dual enrollment course follows a national curriculum developed by the College Board and provides students with an intensive study of American History. The course covers both the AP curriculum and the Virginia SOL with special emphasis on active class participation and critical analysis of major events in American history. Supplemental readings in addition to basic text are required and students may be asked to prepare by completing pre-course assignments. This course meets the requirements for History 121 and History 122 with Laurel Ridge Community College. Students who do not pay dual enrollment tuition charge will not receive college credit from LRCC. AP credit is dictated by college admissions and the College Board.

**Virginia & United States Government** 244005

Credit: 1 244033

Grade: 12

Prerequisite: VA/US History

Virginia and U.S. Government examines the development and operation of the American system of local, state, and national governments. Principles of democracy are studied through the Constitution and other significant political documents. This course explores topics related to historical, contemporary, and future problems and issues in American politics, including the responsibilities of citizenship, political, and economic theories; the relationship of individuals and government to the rule of law; and the role of Virginia and the United States in the global community. A term paper may be required.

**United States Government AP** 244518Credit: 1 **AP DE**

Grade: 12

Prerequisite: VA/US History

This course follows a national curriculum developed by the College Board and provides students with an intensive study of the development and functioning of government at the state and federal levels. Assignments are designed for the refinement of writing and analysis skills necessary for college entry-level classes. Supplemental readings are required and students may be asked to prepare by completing pre-course assignments. This course meets the requirements for Political Science 211 and Political Science 212 with Laurel Ridge Community College. Students who do not pay the dual enrollment tuition charge will not receive college credit from LRCC. AP credit is dictated by college admissions and the College Board.

**Economics Honors**

6120HSS

Credit: 1

Grade: 10-12

Prerequisite: None

This course addresses basic economics concepts and structures; the role of producers and consumers in a market economy; the price system; the factors that affect income, national economic goals; monetary and fiscal policy; and the role of government in a market economy. Economic concepts are used to interpret the daily news and understand the interdependence of the world's economies. The course emphasizes analyzing real-world situations, economic reasoning, decision making, and problem solving. This course is recommended for students who may want to prepare for AP Economics.

This course meets the Economics and Personal Finance high school diploma requirement. Students will take the WISE exam. This course also meets virtual requirements for graduation with online course components.

## History and Social Science Electives

### **Comparative Government AP** 245038 (Virtual Virginia)

Credit: 1 **AP**  
Grade: 11-12  
Prerequisite: None

This course follows a national curriculum developed by the College Board and provides an in-depth study of the political and economic structures of major nations throughout the world. Countries in Europe, Asia, Africa, and the Americas will be compared to help students develop an expanded understanding of how economic and political systems function. Students engage in critical analysis of regional and global issues. The course includes extensive class discussion based on students' research on major events and trends. Two research papers are required. This course may be offered as a virtual course. AP Credit is dictated by college admissions and the College Board.

### **Economics AP (Macro)** 280308

Credit: 1 **AP**  
Grade: 11-12  
Prerequisite: B in Algebra I

This course follows a national curriculum developed by the College Board. Students develop critical thinking skills through the understanding, application, and analysis of fundamental economic concepts. Students learn to apply quantitative and mathematical skills to the discipline of economics, test economic propositions empirically, improve their decision-making skills, and apply economic logic to a wide variety of real world and hypothetical situations. It can be used to meet the Economics and Personal Finance diploma requirement but only when taken in the traditional high school classroom setting. This course also meets virtual course requirements for graduation with online course components. This course may be offered as a virtual course. AP credit is dictated by college admissions and the College Board.

### **Geospatial Science (GIS)** 295007

Credit: 1 **DE**  
Grade: 11-12  
Prerequisite: Completion of Algebra I

This Geospatial Technology Seminar course introduces students to Geographic Information Systems (GIS) and Global Positioning Systems (GPS) technology. Students learn to collect, analyze, and display a variety of data to solve real life problems. Students are trained in the latest ESRI ArcMap software in a variety of scenarios. Students will take a different approach to learning by becoming involved in a community-based research project that involves spatial reasoning and decision-making. All participants will be required to give a final presentation of their projects to local community leaders, the faculty of both their school and of JMU. This course is dual enrolled with JMU. The projects will be focused on using geospatial

to explore the local problem, thus potentially bringing business and government entities into the project as partners, and giving participants' skills in this important technological area.

### **Human Geography AP** 221208

Credit: 1  
Grade: 9-12  
Prerequisite: None

This course is an introduction to the study of patterns and processes that have shaped human understanding and use of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use. Students will use and think about maps and spatial data, understand and interpret the implications of associations among phenomena in places, recognize and interpret the relationships among patterns and processes, define regions, evaluate the regionalization process, and characterize and analyze changing interconnections among places. This course may be offered as a virtual course. AP credit is dictated by college admissions and the College Board.

### **Introduction to Psychology** 290005

Credit: 1  
Grade: 10-12  
Prerequisite: None

This course focuses on various aspects of behavior and mental processes. It includes an overview of the following areas: history of psychology, research methods, biology of behavior, altered states of consciousness, learning and memory, sensation and perception, stress and adjustment, personality, and psychological disorders.

### **Psychology AP** 290208

Credit: 1  
Grade: 11-12 (Grade 10 with recommendation from teacher/counselor)  
Prerequisite: None

This course follows a national curriculum developed by the College Board. Students study the following areas: research methods, biological bases of behavior, sensation and perception, cognition, motivation and emotion, developmental psychology, social psychology, testing and individual differences, and treatment of psychological disorders. This course requires an understanding of the underlying biological process in many areas of content. Students will need to utilize and apply research to their understanding of psychology. Extensive outside reading and critical essay writing are required. Students may be asked to prepare by completing pre-course assignments. AP credit is dictated by college admissions and the College Board.

**Senior Capstone** 299605

Credit: 1

Grade: 12

Prerequisite: None

The purpose of this course is for seniors to synthesize areas of future study in the light of the local and global community. The course culminates in a Senior Project, an individualized plan that students envision, enact, and reflect, upon over the course of their senior year.

**Senior Government Internship** 299655

Credit 1

Grade: 12

Prerequisite: Recommendation from History and Social Science teacher

The purpose of this course is for seniors to work with local Government Department Heads and agencies as interns, completing assigned projects and agency reviews, and presenting their findings. Interns are required to complete at least 120 hours with a local business, government agency, or community organization. Intern projects will include examination and evaluation of effective leadership styles, agency operation, and agency performance.

**Sociology** 250005

Credit: 1

Grade: 11-12

Prerequisite: None

This course introduces basic concepts of sociology and presents relevant theories in areas of socialization, group dynamics, gender roles, deviance, minority relations, and community and social institutions (educational, political, economic and family). The class provides opportunities for students to gain a better understanding of their own society and culture, as well as those different from their own. Through the examination of topics such as delinquency, crime, chemical addiction, and poverty, students will develop the ability to examine social phenomena objectively to discover and seek solutions.

**Special Topics in History****African American History** Grade 10-12 243505**American Civil War** Grade 11-12 299635**Women in History** Grade 11-12 299905

This suite of courses examines a particular topic in history. They are offered on a rotating basis at FCPS high schools based on student interest and teacher expertise and availability. Students will be required to analyze, collaborate, and communicate in a variety of learning contexts to gain a deeper understanding of issues and eras in history. The special topics have traditionally included: African-American Studies; the American Civil War; and Women in History.

**African American History**

243505

Credit: 1

Grade: 10-12

Prerequisite: None

This course will survey African American history from precolonial Africa through the present. Students will be introduced to key concepts in African American history from early beginnings in indigenous Africa through the early enslavement period, the Civil War, Emancipation, Reconstruction, the Civil Rights era and into the present. The course, offered in a variety of learning models, will give students an opportunity to explore social events and processes, individuals and agency, documents and institutions; and analyze past and present positions for future implications for African Americans. This course does require students to complete a Capstone project. Students will pursue independent research relative to the content on a question or problem of their choice and produce a learning object that reflects a deeper understanding of African American history. This course is one of three "special topics in history" courses and it may be scheduled alternatively with the other two by term or by year.

**American Civil War**

299635

Credit: 1

Grade: 11-12

Prerequisite: None

This course examines the scope and consequences of the Civil War with emphasis on the four years of actual fighting. Topics include causes of the war, reasons the North won, military campaigns, the influence of political decisions on military matters, and how the struggle affected various elements of American society, including slaves. A special emphasis is placed on the impact of the war on Fauquier County. This course is one of three "special topics in history" courses and it may be scheduled alternately with the other two by term or by year.

**Women in History**

299905

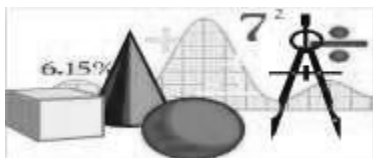
Credit: 1

Grade: 11-12

Prerequisite: None

Women in History examines history, government, economics, and sociology to provide a complete and interdisciplinary examination of the experiences of women throughout history. Using these areas, students will analyze past and present experiences, use critical thinking skills to create solutions to various domestic and global women's issues, and discuss how our lives today have been shaped by the contributions of women. This course is one of three "special topics in history" courses and it may be scheduled alternatively with the other two by term or by year.

## MATHEMATICS



### Graduation Requirements

There are end-of-course SOL tests associated with Algebra I, Geometry, and Algebra II.

### Course Sequencing in Mathematics

The chart included in this section illustrates sample course sequences in mathematics. Other sequences are also possible.

**Essential Concepts in Algebra and Geometry** 319925  
Credit: 2 **SOL**

Grade: 9-12  
Prerequisite: None

This year-long course will combine Algebra I and Geometry to provide a more cohesive development of algebraic and geometric skills and concepts. This course will allow students to build their reasoning and sense-making skills; along with focus on the most critical concepts from content and provide students with a deeper understanding of remembering specific techniques that apply to formulas. Students will work to develop a positive math identity, which will include feeling empowered by math and as doers of math, seeing multiple purposes for learning math, appreciating why math is important in their lives, and coming to believe they can be successful in math. Students will finish this course with a project to be included in their student-designed portfolio.

**Algebra I Part I** 313103  
Credit: 1 313133  
Grade: 9-12  
Prerequisite: None

This is the first part of a program in which algebra is taught over two terms. The course is designed to meet the needs of students who might experience difficulty in a one term Algebra I course. This course counts as one elective credit towards the Standard and Advanced diplomas. Students who take this course must also complete Algebra I Part II.

**Algebra I Part II** 313203  
Credit: 1 **SOL** 313233  
Grade: 9-12  
Prerequisite: Successful completion of Algebra I Part I

This course is a continuation of Algebra I Part I. Successful completion of this course indicates that a student has mastered all Algebra I topics. Combined with Algebra I Part I this course counts as one mathematics credit.

**Algebra I** 313005  
Credit: 1 **SOL**  
Grade: 9-12  
Prerequisite: None

Students solve and graph linear and quadratic equations and solve and graph linear inequalities. Students analyze function families algebraically and graphically. Graphing calculators are used as both a tool in solving problems and to verify solutions. Students investigate and analyze characteristics and multiple representations of linear and quadratic functions and analyze data using a curve of best fit.

**Geometry Part I** 314403  
Credit: 1  
Grade: 9-12  
Prerequisite: Successful completion of Algebra I or Algebra I Part II

This is the first part of a program in which Geometry is taught over two terms. The course is designed to meet the needs of students who might experience difficulty in a one-term Geometry course. This course counts as one elective credit towards Standard and Advanced Studies Diplomas. Students who take this course must also complete Geometry Part II to earn a mathematics credit towards graduation.

**Geometry Part II** 314503  
Credit: 1 **SOL** 314533  
Grade: 9-12  
Prerequisite: Successful completion of Geometry Part I

This is the second part of a program in which Geometry is taught over two terms. Successful completion of this course indicates that a student has mastered all Geometry topics. Combined with Geometry Part I, this course counts as one mathematics credit.

**Geometry** 314305  
Credit: 1 **SOL**  
Grade: 9-12  
Prerequisite: Successful completion of Algebra I or Algebra I Part II

This course includes the study of both plane and solid geometry. Students investigate real-world problems using pictorial representations, computer software, constructions, algebraic and coordinate methods, deductive proofs, and formulas (e.g. quadrilateral properties, triangle congruence/similarity, right triangle trigonometry, properties and equations of circles, surface area and volume of solid figures).

**Geometry Honors 314307**

Credit: 1

Grade: 9-10 **SOL**

Prerequisite: Grade of C or better in Algebra I or teacher recommendation

This course includes the deductive-axiomatic method of proof and inductive/intuitive approaches to geometry. General problem-solving techniques, a variety of real-world applications, extensive use of algebraic skills, and the use of related technology are included in the course. Students will finish this course with a project to be included in their student-designed portfolio.

**Algebra, Functions and Data Analysis (AFDA) 313405**

Credit: 1

Grade: 10-12

Prerequisite: Successful Completion of Algebra I

In this course, students study functions and their behaviors, systems of inequalities, probability, experimental design and implementation, and analysis of data. Data is generated by practical applications from science, business, and finance. Students solve problems that require the formulation of linear, quadratic, exponential, or logarithmic equations of a system of equations. Students strengthen conceptual understanding in mathematics and further develop connections between algebra and statistics.

**Algebra II 313505**

Credit: 1

**SOL**

Grade: 9-12

Prerequisite: Successful completion of Algebra I

This course includes the study of rational, radical, and polynomial expressions and equations. Students analyze function families algebraically and graphically. Nonlinear systems of equations will be solved graphically. Using an appropriate strategy, quadratic equations will be solved over the set of complex numbers. Students work with variations, sequences, series, permutations, and combinations. They analyze data using a curve of best fit, make predictions, and solve real-world problems, including properties of a normal distribution. Students will make connections between and among multiple representations of a function. Graphing calculators are used as tools for investigative and application purposes throughout the course.

**Advanced Algebra II 313707**

Credit: 1

**SOL**

Grade: 9-10

Prerequisite: Grade of C or better in Algebra I in Middle School and Geometry Honors; grade of B or better in Algebra I and Geometry

Through the investigation of mathematical models and interpretation/analysis of data from real life situations, students will strengthen conceptual understandings in

mathematics and further develop connections between algebra and statistics. Students will study functions, systems of inequalities, probability, and analysis of data. Data will be generated by practical applications, arising from science, business, and finance. Students will solve problems that require formulation of linear, quadratic, exponential or logarithmic equations. Students should expect both rigor and challenge in the course. All students will complete an independent project with a real-world application to share with an authentic audience and add to their portfolio.

**Advanced Functions & Modeling 313605**

Credit: 1

Grade: 12

Prerequisite: Successful completion of AFDA or Algebra II

Advanced Functions and Modeling is a capstone course that focuses on providing students with the instruction to meet or exceed college and career-ready performance expectations. Students do mathematical tasks, work on inquiry-based projects, and solve problems collaboratively while developing decision-making skills, critical thinking, and presentation ability. The course provides students with applied and relevant instruction that supports students' attainment of the rigorous College and Career Readiness Performance Expectations. Students will finish this course with a project to be included in their student-designed portfolio.

**Advanced Mathematics 316005**

Credit: 1

Grade: 10-12

Prerequisite: Successful completion of Algebra II

This course provides students with a study of trigonometry. Students graph all trigonometric functions and combination functions, prove and verify trigonometric identities, use various angle formulas, and use polar coordinates and equations. In addition, students simplify radical expressions, perform all operations with radical expressions and complex fractions, and solve quadratic equations.

**Mathematical Analysis 316207**

Credit: 1

Grade: 10-12

Prerequisite: Grade of C or better in either Advanced Algebra II or Advanced Mathematics

This course is an in-depth study of polynomial, rational, exponential, and logarithmic functions. Trigonometry and circular functions are reviewed. Vectors, polar equations and parametric equations are used to model and solve application problems. Trigonometric functions, the Pythagorean Theorem, the Law of Sines, and the Law of Cosines are applied to solve practical problems.



**Pre-Calculus AP**

Credit: 1

**AP**

Grade: 10-12

Prerequisite:

This course is an in-depth study of polynomial, rational, exponential, and logarithmic functions. Trigonometry and circular functions are reviewed. Vectors, polar equations and parametric equations are used to model and solve application problems. Trigonometric functions, the Pythagorean Theorem, the Law of Sines, and the Law of Cosines are applied to solve practical problems.

**Calculus**

319905

Credit: 1

Grade: 11-12

Prerequisite: Successful completion of Mathematical Analysis

This course includes the study of functions, limits, derivatives, and the technique of differentiation, the definite and indefinite integral, and the techniques of integration, analytic geometry, and applications.

**Calculus AB AP**

317718

Credit: 1

**AP**

Grade: 11-12

Prerequisite: Successful completion of Mathematical Analysis

Calculus AB AP is a one-credit course designed to prepare students for the Calculus AB AP Exam. The topics include functions, limits, derivatives, and the techniques of differentiation, the definite and indefinite integral and the techniques of integration, analytic geometry, and applications.

**Calculus BC AP**

317738

Credit: 2

**AP**

Grade: 11-12

Prerequisite: Successful completion of Mathematical Analysis

Calculus BC AP is a two-credit course designed to prepare students for the Calculus BC AP Exam. Topics include functions, limits, derivatives, and the techniques of differentiation, the definite and indefinite integral and the techniques of integration, analytic geometry, and application, infinite series, conics, plane curves, parametric equations, and polar coordinates, vector value functions, vectors, and the geometry of space, and differential equations.

**Multivariable Calculus**

317808

Credit: 1

Grade: 12

Prerequisite: Grade of C or better in Calculus BC AP and a 3 or better on the Calculus BC AP Exam

This course is a continuation of calculus beyond the

Calculus BC course. Topics include functions of several variables, multiple integration, vector analysis, first order differential equations with application, and linear differential equations of high order. The final grade in this course receives a weighted value.

**Probability and Statistics**

319005

Credit: 1

Grade: 10-12

Prerequisite: Successful completion of Algebra II

This course introduces students to basic concepts and techniques for collecting and analyzing data, drawing conclusions and making predictions. Students will design experiments and surveys, explore real life probabilities, and focus on communication and interpretation of results using statistical language and technology. The course will expose students to four broad conceptual themes: (1) exploring data – observing patterns and departures from patterns, (2) planning a study - deciding what and how to measure, (3) anticipating patterns – producing probability and simulations, and (4) statistical inference - confirming models. Students will use multiple representations to present data including written descriptions, numerical statistics, formulas and graphs.

**Statistics AP**

319208

Credit: 1

**AP DE**

Grade: 10-12

Prerequisite: Grade of C or better in Algebra II or Advanced Algebra II

In this course, students explore data distributions; explore data relationships; design samples and experiments; sample distributions and probability; and make inferences from data using known principles: comparison, measurements, large samples, and regression. Students learn to use confidence intervals, tests of significance, and special cases of normally distributed data.

**Computer Mathematics**

318405

Credit: 1

Grade: 9-12

Prerequisite: Successful completion of Algebra I

This course is an introduction to computer science. Students use computers to solve problems that can be set up as mathematical models. Strategies include defining the problem, developing, refining, and implementing a plan, and testing and revising the solution. The course also includes programming, ranging from simple programs involving only a few lines to complex programs. This course counts as one elective credit toward the Advanced Studies Diploma and one mathematics credit toward the Standard Diploma.

**Computer Science Principles AP** 100198Credit: 1 **AP**

Grade: 9-12

Prerequisite: Successful completion of Algebra I

AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. The fundamentals of computing, including problem solving, working with data, understanding the Internet, cybersecurity, and programming will help to broaden students' understanding of computer science for use in a diversity of majors and careers. This course may be used in conjunction with Algebra I and Geometry to satisfy math graduation requirements if student completes a career and technical concentration.

**Computer Science A AP** 318538Credit: 1 **AP**

Grade: 11-12

Prerequisite: Successful completion of Algebra II or Advanced Algebra II and Computer Math or demonstrated proficiency in writing computer programs

Students study a high-level structured language emphasizing algorithms, internal and external documentation covering data types, input/output from or to various devices, decisions, loop functions, procedures, arrays, records and files, and sorting and searching. The major emphasis in Computer Science A is design and implementation of computer-based solutions to problems in several application areas. Students learn how to develop algorithms, select appropriate data structures, and write code fluently using JAVA. This course counts as one mathematics credit.

**Computer Science III** 320108

Credit: 1

Grade: 11-12

Prerequisite: Successful completion of Computer Science A AP or Computer Science Principles AP or teacher recommendation

In this course, students participate in an independent study of a high-level structured language emphasizing algorithms, internal and external documentation, and interface implementation. The major emphasis in Computer Science III is the design and execution of computer-based solutions to problems related to current trends in local and global communities. Students learn how to design usable interfaces, develop applications using popular and state-of-the-art languages.

**Discrete Mathematics** 315405

Credit: 1

Grade: 10-12

Prerequisite: Successful completion of Algebra II or Advanced Algebra II

This course covers basics of graph theory as well as circuits, cycles, and paths. Conflict-resolution problems are solved using graphs. Other optimization techniques such as linear programming are explored. Students investigate weighted voting techniques and various election methods, learn basic counting principles and utilize these to examine combinations and permutations; analyze and describe the issue of fair division; use Venn diagrams, truth tables and matrices to solve logic problems; and learn scheduling algorithms.

**Economics and Personal Finance** 6120MTH

Credit: 1

Grade: 11-12

Prerequisite: Successful completion of Algebra I and Geometry

This course presents economic concepts that help students interpret the daily news, understand how interdependent the world's economies are, and anticipate how events will impact their lives. Students learn that their own human capital (knowledge and skills) is their most valuable resource and that investing in education and training improves the likelihood of their future economic success. The standards also help students develop thinking skills that include analyzing real-world situations, economic reasoning, decision making, and problem solving. The course is taught using numerical analysis and mathematics as appropriate. This course meets the requirement for the Economics and Personal Finance high school diploma requirement and students will also take the WISE exam. Sophomores may be admitted only under extenuating circumstances. This course also meets virtual course requirements for graduation with online course components.

**SAT Critical Reading and Writing-Math Prep** 012905

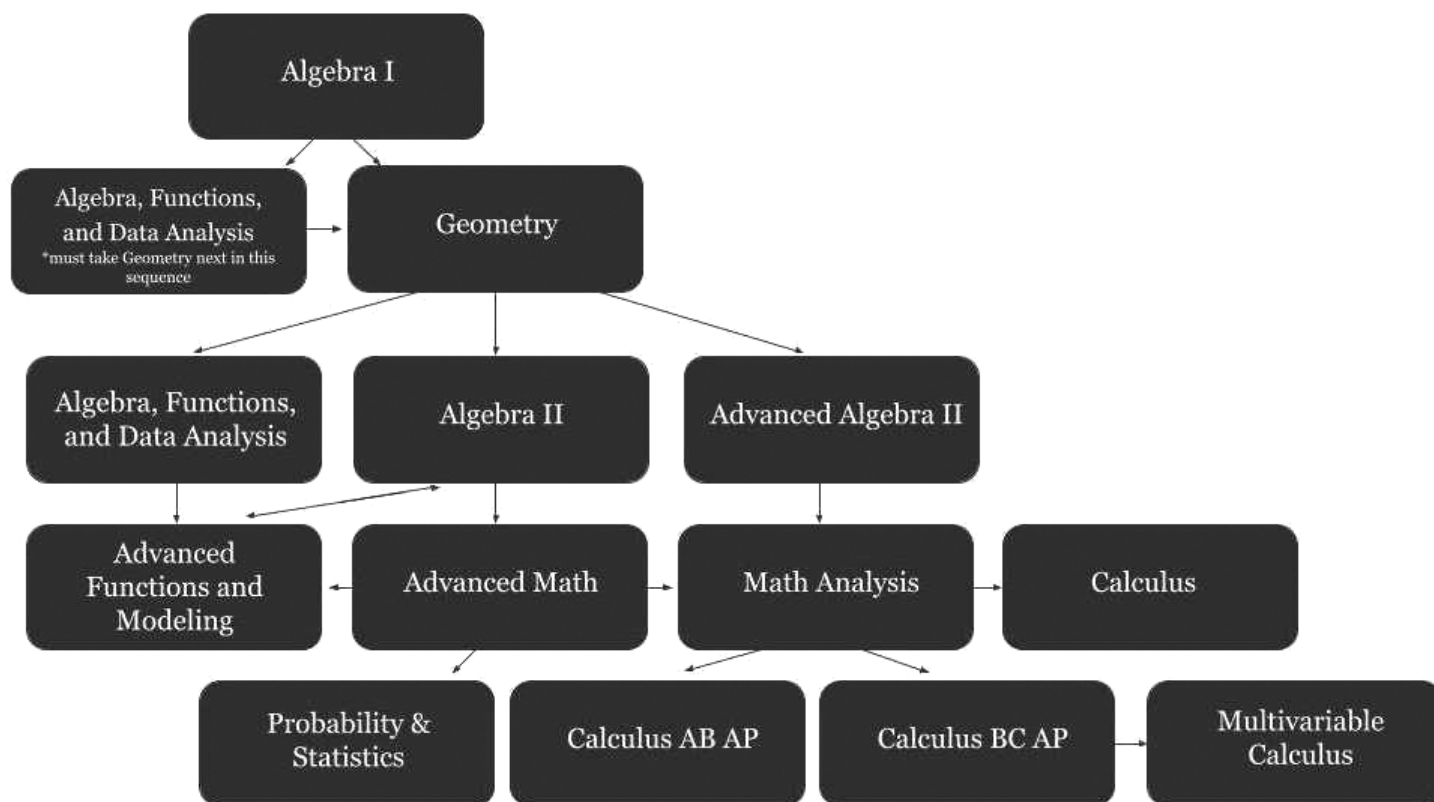
Credit: 1

Grade: 11-12

Prerequisite: English 9, English 10, Algebra I, Geometry, and Algebra II

The mathematics portion of this course is designed to help motivated college bound students develop strategies for improving scores on college entrance exams. The course work reviews basic Algebra I and II and Geometry concepts. It introduces effective problem-solving strategies, identifies important pacing ideas, and provides practice in the SAT question formats of multiple choice and grid in. Students take several practice SAT tests throughout the course. They also explore the college application process. A materials fee is charged. This course counts as one elective credit.

## RECOMMENDED MATHEMATICS SEQUENCING CHART



Additional math courses and prerequisites:

Course Title	Prerequisite (if applicable)
Economics & Personal Finance	
Discrete Mathematics	Algebra II
Computer Mathematics	Algebra I
Computer Science Principles AP	Algebra I
Computer Science A (AP)	Algebra II & Computer Math
Computer Science III	Computer Science A (AP) or Computer Science Principles AP
Probability & Statistics	Algebra II
Statistics AP	Algebra II
SAT – Critical Reading & Writing – Math Prep	Algebra II

## HEALTH AND PHYSICAL EDUCATION



### Graduation Requirements

Fauquier County Public Schools requires a credit in both Health & Physical Education 9 and Health & Physical Education 10 to meet graduation requirements.

Both the standard and advanced diploma options require students to be trained in emergency first aid, the use of an automated external defibrillator (AED), and hands-on practice for cardiopulmonary resuscitation (CPR).

#### Health and Physical Education 9 730005

Credit: 1

Grade: 9

Prerequisite: None

This course provides students with the knowledge, understanding, and skills to transition from modified versions of movement forms to more complex applications across all types of physical activities. Students demonstrate more specialized knowledge in identifying and applying key movement concepts and principles with an emphasis on the development of efficient body control and movement. The health portion of this course integrates a variety of health concepts, including desirable social skills, safety awareness, and behaviors to help students plan for their personal goals. Students receive training in emergency first aid, use of an AED (automated external defibrillator), and hands-on practice for CPR (cardiopulmonary resuscitation) during the health portion of this course to meet graduation requirements.

*While 9<sup>th</sup> Grade Family Life objectives are covered as part of the Health 9 curriculum, families may choose to opt their students out of these lessons.*

#### Health and Physical Education 10 740505

Credit: 1

Grade: 10

Prerequisite: Health & PE 9

This course focuses on the proficiency of fundamental movements, skill combinations, and knowledge that can help to prepare students for a more physically active and healthy lifestyle. Activities include outdoor pursuits, fitness exercises, individual performance, and net/wall target games. The ability to exhibit responsible personal and social behavior that respects self and others is emphasized. The classroom phase of Driver Education is included in this course.

*While 10<sup>th</sup> Grade Family Life objectives are covered as part of the Health 10 curriculum, families may choose to opt their students out of these lessons.*

#### Advanced Physical Education I

764005

Credit: 1

Grade: 11-12

Prerequisite: Grade of C or better in Health & PE10 or recommendation from teacher

This advanced course in physical education is designed for students who are interested in physical activity and lifetime values of exercise and sports. Students have the opportunity to improve some of the skills they have learned in previous physical education classes. The course includes non-traditional activities to go along with some of the more conventional sports and games. Possible field trips will be offered as well. *Note: A fee may be charged to cover certain activities and field trips.*

#### Advanced Physical Education II

764015

Credit: 1

Grade: 11-12

Prerequisite: Grade of C or better in Advanced PE I

This advanced course in physical education is designed to teach students the value of exercise and physical activity. Students practice skills learned in previous physical education classes and participate in recreational activities that promote healthy life-long fitness.

#### Life Fitness I

764035

Credit: 1

Grade: 11-12

Prerequisite: Grade of C or better in Health & PE 10 or recommendation from teacher

This elective course focuses on the practical and functional modes of strength training and body mechanics, history of strength training, nutrition, physiology, kinesiology, cardiovascular conditioning, and related areas. Emphasis is placed on benefits of building a strong body and maintaining good health throughout life. Testing and evaluation is done to challenge students and encourage a positive attitude toward total healthful living. Space and safety concerns may limit enrollment. Sophomores may have limited enrollment if space is available. *Life Fitness I cannot be taken in place of Health & PE 10.*

#### Life Fitness II

764055

Credit: 1

Grade: 11-12

Prerequisite: Grade of C or better in Life Fitness I

This elective course builds on the knowledge and skills developed in Life Fitness I. Students investigate anatomy, physiological adaptations, nutritional considerations, and other sport-science topics. Emphasis is placed on students developing the ability to design and implement their own strength training program. Students learn basic weight training principles including periodization, specificity, and correct use of variation and rest interval procedures. Students learn how to maintain a level of physical fitness that promotes disease prevention, an active life-style, and longevity.

**Life Fitness III**

764075

Credit: 1

Grade: 11-12

Prerequisite: Grade of C or better in Life Fitness II

This elective course builds on the knowledge and skills developed in Life Fitness I and II.

**Unified PE**

982605

Credit: 1

Grade: 10-12

Prerequisite: Recommendation from teacher

This course is designed for students to experience a variety of activities in physical education, especially those which require teamwork and cooperation. Warm-up stretches, cardio-exercises, and group games are part of the routine. The curriculum is modified to meet the skill sets of the students with disabilities. Other students will participate as mentors for students with disabilities and these experiences will build skills and techniques for working with different populations and help develop leadership skills. *Unified PE cannot be taken in place of Health & PE 10.*

**Adapted Physical Education**

770000

Credit: 1

Grade: 9-12

Prerequisite: None

This course provides students an alternative to the required physical education courses. Students who cannot take an active part in Health & Physical Education 9 or 10 due to medical restrictions may be scheduled for this course.

**Sports Medicine I**

763005

**(Athletic Training Level I)**

Credit: 1

Grade: 10-12

Prerequisite: Must complete an application and an interview with the Athletic Trainer

This program provides students with skills to prepare for a career in athletic training, physical therapy, orthopedic sports medicine, or related fields. Students must work a minimum of 30 hours outside of class time as athletic training staff. Students must attend all classroom instruction and lab practical activities. Topics include direct clinical experience, policies and procedures, modality operations, taping, and examinations. Assignments include: a research paper on Sports Medicine and case reports. Students must sign the Student Training Guidelines. *Note: A materials fee may be charged to cover materials.*

**Sports Medicine II**

763035

**(Athletic Training Level II)**

Credit: 1

Grade: 10-12

Prerequisite: Sports Medicine I and recommendation from Athletic Trainer

Students must put in 200 hours of clinical and field experience under the direct supervision of the certified athletic trainer. Students must maintain a 3.0 grade average to acquire hours. The advanced student athletic trainer will supervise level 1 student athletic trainers and assist in prevention, emergency care, evaluation, and treatment of athletic injuries. A major paper, four major tests, plus weekly quizzes are required. *Note: A materials fee may be charged to cover materials.*

**Health and PE Fitness Instructor**

750005

Credit: 1

Grade: 12

Prerequisite: Life Fitness I

This elective course is designed for students who have an interest in pursuing a career in the health and fitness field, specifically through personal training. Upon successful completion of this National Academy of Sports Medicine (NASM) course and passing an off-site industry exam, students have an opportunity to earn a fitness industry credential. The Certified Personal Training credential will allow students to enter the high-demand market of personal training; which is a potential pathway to other careers in fitness such as athletic training, sports medicine, and physical therapy.

## SCIENCE



### Graduation Requirements

Fauquier County offers courses in four science disciplines: Biology, Chemistry, Earth Science, and Physics.

Students seeking an Advanced Diploma will need to take a minimum of four science courses in at least three different disciplines. Students seeking a Standard Diploma will need to take at least three science courses in at least two different disciplines.

Students may take science courses in any sequence provided they have met the prerequisites. However, students should only consider elective courses after they have completed at least two introductory science courses in different disciplines. Students may take more than one science class per year if their schedule allows.

All students must have at least one of their science credits verified by an end-of-course SOL test. There are SOL tests associated with Introductory Earth Science, Biology and Chemistry, but only the Biology test is accepted for federal accountability of schools under the Every Student Succeeds Act (ESAA).

**Earth Science** 421005  
Credit: 1 **SOL** 421033  
Grade: 9-12  
Discipline: Earth Science  
Prerequisite: None

Earth Science is an introductory lab-based course that deals with the disciplines of astronomy, geology, meteorology, and oceanography. Topics include the universe, characteristics of Earth, rocks and minerals, resource use, atmospheric conditions, and weather. Emphasis is placed on acquiring knowledge through laboratory experiences and understanding the process of science.

**Earth Science Honors** 421017  
Credit: 1 **SOL**  
Grade: 9-12  
Discipline: Earth Science  
Prerequisite: None

Earth Science Honors is recommended for students who wish to work at an advanced level. The basic topics of Earth Science are covered on an accelerated schedule and emphasis is placed on problem solving, exploring scientific literature, investigative research, data analysis, and laboratory experiences.

**Environmental Science** 030035  
Credit: 1  
Grade: 9  
Discipline: Earth Science OR Biology  
Prerequisite: None

Environmental Science is an introductory course covering fundamental concepts from Biology and Earth Science. Topics include: Earth systems, population dynamics, environmental quality, human impact on the environment, and conservation. Students will use current technology and problem-solving techniques to gather and interpret real data. *The credit earned for Environmental Science may be used as either an Earth Science OR a Biology credit to satisfy science discipline requirements.*

**Astronomy (Earth Science II)** 426005  
Credit: 1  
Grade: 11-12  
Discipline: Earth Science  
Prerequisite: Earth Science, Algebra II recommended

Astronomy is an elective course for students who would like to gain a deeper understanding of astronomy and the atmospheric sciences. Topics include: stars and constellations, planets, and features of the known universe.

**Geology (Earth Science II)** 424005  
Credit: 1  
Grade: 10-12  
Discipline: Earth Science  
Prerequisite: Environmental Science or Earth Science recommended

Geology is an elective course for students who would like to gain a deeper understanding of Earth's features, materials, and the complex forces that have shaped the world around us. Topics include: minerals, rock classification, geological time, fossils, environmental and geophysical systems, plate tectonics, weathering, erosion, deposition, and the geology of Virginia.

**Oceanography (Earth Science II)** 425005  
Credit: 1  
Grade: 10-12  
Discipline: Earth Science  
Prerequisite: Environmental Science or Earth Science recommended

Oceanography is an elective course for students who would like to gain a deeper understanding of the ocean and its systems. Topics include: physical & chemical properties of seawater, ocean exploration, seafloor features, sedimentation, waves, biogeochemical cycles, weather, climate, and an introduction to marine ecology.

**Biology** 431005  
 Credit: 1 **SOL** 431033  
 Grade: 9-12  
 Discipline: Biology Prerequisite: None

Biology is an introductory lab-based course that deals with the basic principles of biological science. Topics include: cells, classification, biochemistry, DNA/Genetics, evolution, and ecology. Emphasis is placed on acquiring knowledge through laboratory experiences and understanding the process of science.

**Biology Honors** 431017  
 Credit: 1 **SOL**  
 Grade: 9-12  
 Discipline: Biology Prerequisite: None

Biology Honors is recommended for students who wish to work at an advanced level. The basic topics of Biology are covered on an accelerated schedule and emphasis is placed on problem solving, exploring scientific literature, investigative research, data analysis, and field/laboratory experiences.

**Ecology (Biology II)** 434005  
 Credit: 1  
 Grade: 10-12  
 Discipline: Biology  
 Prerequisite: Biology

Ecology is an elective course for students who have completed an introductory Biology course and would like to gain a deeper understanding of living and non-living factors in the environment. Topics include: ecosystem interactions, biogeochemical cycles, water quality, human impact on the environment, and possible solutions for environmental issues.

**Anatomy and Physiology (Biology II)** 433005  
 Credit: 1  
 Grade: 11-12  
 Discipline: Biology  
 Prerequisite: Biology and Chemistry

Anatomy is a lab-based elective course for students who have completed introductory Biology and Chemistry courses and would like to gain a deeper understanding of the human body and its systems. Topics include: individual cell types and tissues, structure and function of major organs, and how organs work together to form organ systems in a functioning organism.

**Marine Biology (Biology II)** 432017  
 Credit: 1  
 Grade: 11-12  
 Discipline: Biology  
 Prerequisite: Biology and Chemistry

Marine Biology is an elective course recommended for students who have completed introductory Biology and

Chemistry courses and wish to work at an advanced level. Students should be prepared to conduct independent laboratory research and present content comprehensively in a variety of forms. In addition, students will conduct research in the areas of statistical analysis of an outdoor ecosystem, marine biology, and genetic engineering.

**Environmental Science AP** 427008  
 Credit: 1 **AP**  
 Grade: 11-12  
 Discipline: Earth Science or Biology  
 Prerequisite: Biology and Chemistry (Earth Science recommended)

AP Environmental Science is an elective course equivalent to a one semester introductory-level college Environmental Science course. Students are provided with the scientific principles, concepts, and methodologies required to understand the complex interrelationships of the natural world and identify possible environmental risks and solutions. This course follows a national curriculum developed by the College Board and includes both laboratory and field experiences. Students may be asked to prepare for this course by completing pre-course assignments. *The credit earned for AP Environmental Science may be used as either an Earth Science credit OR a Biology credit to satisfy science discipline requirements.*

**Biology AP** 437008  
 Credit: 2 **AP**  
 Grade: 11-12  
 Discipline: Biology  
 Prerequisite: Biology and Chemistry

AP Biology is a two-term, two-credit elective course equivalent to a full year (two semesters) of introductory-level college biology. Students will cultivate their understanding through inquiry-based laboratory investigations and use problem-solving skills for real-world applications. This course follows a national curriculum developed by the College Board. Students may be asked to prepare for this course by completing pre-course assignments.

**Chemistry** 441005  
 Credit: 1 **SOL**  
 Grade: 10-12  
 Discipline: Chemistry  
 Prerequisite: Algebra I

Chemistry is an introductory lab-based course that deals with the basic principles of chemistry. Topics include: atomic theory, chemical bonding, chemical reactions, molar relationships, kinetic molecular theory, and thermodynamics. Emphasis is placed on acquiring knowledge through laboratory experiences and understanding the process of science.



### Chemistry AP 447008

Credit: 2  
Grade: 11-12  
Discipline: Chemistry  
Prerequisite: Chemistry

AP Chemistry is a two-term, two-credit elective course equivalent to a full year (two semesters) of introductory-level college chemistry. Students will cultivate their understanding through inquiry-based laboratory investigations and use problem-solving skills for real-world applications. This course follows a national curriculum developed by the College Board. Students may be asked to prepare for this course by completing pre-course assignments.

### Physics 451005

Credit: 1  
Grade: 10-12  
Discipline: Physics  
Prerequisite: Algebra II

Physics is an introductory lab-based course that deals with the basic principles of physical science. Topics include: mechanics, heat, light, sound, and electricity. Emphasis is placed on problem solving and acquiring knowledge through laboratory experiences.

### Physics I – Algebra Based AP 457308

Credit: 1 **AP**  
Grade: 10-12  
Discipline: Physics  
Prerequisite: Advanced Mathematics

AP Physics I is an introductory algebra-based course equivalent to the first semester of introductory-level college physics. Topics include: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonics, mechanical waves and sound, and rotational motion. Students will cultivate their understanding through inquiry-based lab investigations and use problem-solving skills for real-world applications. This course follows a national curriculum developed by the College Board. Students may be asked to prepare for this course by completing pre-course assignments. *Please note: Physics is not required as a prerequisite for AP Physics I. Students who wish to work at an advanced level may take this course as their introduction to the Physics discipline.*

### Physics II - Algebra Based AP 457408

Credit: 1 **AP**  
Grade: 10-12  
Discipline: Physics  
Prerequisites: AP Physics 1 or comparable introductory course and Advanced Mathematics

AP Physics II is an algebra-based elective course equivalent to the second semester of introductory-level college physics. Topics include: fluid mechanics, thermodynamics, electricity and magnetism, optics, and quantum, atomic, and nuclear physics. Students will cultivate their understanding through inquiry-based lab investigations and use problem-solving skills for real-world applications. This course follows a national curriculum developed by the College Board. Students may be asked to prepare for this course by completing pre-course assignments.



## SPECIAL EDUCATION



The courses listed in this section are available specifically for special education students. They provide access to the general curriculum and specially designed curriculum to meet the unique needs of special education students.

Courses to meet the specific diploma types are determined by the Individualized Education Program (IEP) for each special education student.

### Language Arts 9 151703

Credit: 1

Grade: 9

Prerequisite: None

This course provides an emphasis on the writing process, language and vocabulary skills, and reading of various types of literature. Oral and written communication skills are emphasized. This course also helps students become more effective readers. Instruction is individualized to meet the needs of the student. This course does not count as a credit toward the Standard Diploma.

### Language Arts 10 151713

Credit: 1

Grade: 10

Prerequisite: Language Arts 9

This course provides an emphasis on the writing process, language and vocabulary skills, and reading of various types of literature. Oral and written communication skills are emphasized. This course also helps students become more effective readers. Instruction is individualized to meet the needs of the student. This course does not count as a credit toward the Standard Diploma.

### Language Arts 11 151723

Credit: 1

Grade: 11

Prerequisite: Language Arts 10

This course provides an emphasis on the writing process, language and vocabulary skills, and reading of various types of literature. Oral and written communication skills are emphasized. This course also helps students become more effective readers. Instruction is individualized to meet the needs of the student. This course does not count as a credit toward the Standard Diploma.

### Language Arts 12

151733

Credit: 1

Grade: 12

Prerequisite: Language Arts 11

This course provides an emphasis on the writing process, language and vocabulary skills, and reading of various types of literature. Oral and written communication skills are emphasized. This course also helps students become more effective readers. Instruction is individualized to meet the needs of the student. This course does not count as a credit toward the Standard Diploma.

### Mathematics 9

320003

Credit: 1

Grade: 9

Prerequisite: None

This course focuses on instruction in basic computational skills (addition, subtraction, multiplication, division) of whole numbers, decimals, and fractions. Students will apply basic math skills to consumer issues they will deal with in real life such as taxes and personal/family budget. Instruction will be individualized to meet the needs of the student. This course does not count as a credit toward the Standard Diploma.

### Mathematics 10

320013

Credit: 1

Grade: 10

Prerequisite: Math 9

This course focuses on instruction in basic computational skills (addition, subtraction, multiplication, division) of whole numbers, decimals, and fractions. Students will apply basic math skills to consumer issues they will deal with in real life such as taxes and personal/family budget. Instruction will be individualized to meet the needs of the student. This course does not count as a credit toward the Standard Diploma.

### Mathematics 11

320023

Credit: 1

Grade: 11

Prerequisite: Math 10

This course focuses on instruction in basic computational skills (addition, subtraction, multiplication, division) of whole numbers, decimals, and fractions. Students will apply basic math skills to consumer issues they will deal with in real life such as taxes and personal/family budget. Instruction will be individualized to meet the needs of the student. This course does not count as a credit toward the Standard Diploma.

### Mathematics 12

320033

Credit: 1

Grade: 12

Prerequisite: Math 11

This course focuses on instruction in basic computational skills (addition, subtraction, multiplication, division) of

whole numbers, decimals, and fractions. Students will apply basic math skills to consumer issues they will deal with in real life such as taxes and personal/family budget. Instruction will be individualized to meet the needs of the student. This course does not count as a credit toward the Standard Diploma.

**Personal Living and Finance 312033**

Credit: 1  
Grade: 10-12  
Prerequisite: None

Students apply basic math skills to consumer issues they will deal with in life such as taxes, personal/family budget, managing debt, comparing savings options, and identifying 78 consumer rights and responsibilities. Students will also learn the 21 Workplace Readiness Skills (WRS) for the Commonwealth and take the WRS for the Commonwealth Assessment. Upon passing the WRS assessment, the student would satisfy the graduation requirements for an industry credential and economics and personal finance. This course is strictly for students who have demonstrated a need through their IEP process for a credit accommodation for Economics and Personal Finance (6120 CTE). This course also meets virtual course requirements for graduation with online course components.

**Science 9 461703**

Credit: 1  
Grade: 9  
Prerequisite: None

This course provides some of the basic principles of earth science, biology, and ecology. Students experience these disciplines through hands-on laboratory work, field work, computer simulations, and multi-media presentations. Emphasis is placed on how science affects daily living. This course does not count as credit toward the Standard Diploma.

**Science 10 461713**

Credit: 1  
Grade: 10  
Prerequisite: Science 9

This course provides some of the basic principles of earth science, biology, and ecology. Students experience these disciplines through hands-on laboratory work, field work, computer simulations, and multi-media presentations. Emphasis is placed on how science affects daily living. This course does not count as credit toward the Standard Diploma.

**Science 11 461723**

Credit: 1  
Grade: 11  
Prerequisite: Science 10

This course provides some of the basic principles of earth science, biology, and ecology. Students experience these disciplines through hands-on laboratory work, field work,

computer simulations, and multi-media presentations. Emphasis is placed on how science affects daily living. This course does not count as credit toward the Standard Diploma.

**Science 12 461733**

Credit: 1  
Grade: 12  
Prerequisite: Science 11

This course provides some of the basic principles of earth science, biology, and ecology. Students experience these disciplines through hands-on laboratory work, field work, computer simulations, and multi-media presentations. Emphasis is placed on how science affects daily living. This course does not count as credit toward the Standard Diploma.

**Social Studies 9 299703**

Credit: 1  
Grade: 9  
Prerequisite: None

This course investigates past and present human societies and civilizations and provides a brief study of the history of the United States. Students study important events and people of the state of Virginia as well as the United States. Emphasis is placed on the responsibilities of citizenship, the relationship of individuals and government to the role of law, and the role of Virginia and the United States in the global community. This course does not count as credit toward the Standard Diploma.

**Social Studies 10 299713**

Credit: 1  
Grade: 10  
Prerequisite: Social Studies 9

This course investigates past and present human societies and civilizations and provides a brief study of the history of the United States. Students study important events and people of the state of Virginia as well as the United States. Emphasis is placed on the responsibilities of citizenship, the relationship of individuals and government to the role of law, and the role of Virginia and the United States in the global community. This course does not count as credit toward the Standard Diploma.

**Social Studies 11 299723**

Credit: 1  
Grade: 11  
Prerequisite: Social Studies 10

This course investigates past and present human societies and civilizations and provides a brief study of the history of the United States. Students study important events and people of the state of Virginia as well as the United States. Emphasis is placed on the responsibilities of citizenship, the relationship of individuals and government to the role of law, and the role of Virginia and the United States in the global community. This course does not count as credit toward the Standard Diploma.

**Social Studies 12**

299733

Credit: 1

Grade: 12

Prerequisite: Social Studies 11

This course investigates past and present human societies and civilizations and provides a brief study of the history of the United States. Students study important events and people of the state of Virginia as well as the United States. Emphasis is placed on the responsibilities of citizenship, the relationship of individuals and government to the role of law, and the role of Virginia and the United States in the global community. This course does not count as credit toward the Standard Diploma.

**Pre-Vocational Skills Level I**

789803

Credit: 1

Grade: 9-12

Prerequisite: None

Students investigate daily living skills, personal-social skills and occupational fields within the classroom setting. They examine occupational requirements, explore career pathways, conduct a job search, learn interview skills, and demonstrate positive work traits and attitudes. This course is designed for students who plan to enter the work force after high school. This course does not count as a credit toward the Standard Diploma.

**Pre-Vocational Skills Level II**

789823

Credit: 1

Grade: 9-12

Prerequisite: IEP recommendation, Pre-Vocational Skills I or demonstration of mastery of competencies from Level I

Students participate in a work setting while continuing with their employment training, which is supervised or monitored by school staff during the school day, and may rotate jobs in order to receive a sampling of different job types and work opportunities. The student receives additional classroom instruction when needed. Transportation during the school day is arranged by the school system. This course is recommended for students who require direct supervision. This course does not count as a credit toward a Standard Diploma.

**Pre-Vocational Skills III**

789833

Credit: 1

Grade: 10-12

Prerequisite: IEP recommendation, Pre-Vocational Skills II or demonstration of mastery of competencies from Level II

Students participate in a work setting while continuing with their employment training, which is supervised or monitored by school staff during the school day, and may rotate jobs in order to receive a sampling of different job types and work opportunities. The student receives additional classroom instruction when needed.

Transportation during the school day is arranged by the school system. This course is recommended for students who require direct supervision. This course does not count as a credit toward a Standard Diploma.

**Academic Enhancement I**

786884

Credit: 1

Grade: 9-10

Prerequisite: None

This course focuses on the improvement of executive functions for ninth and tenth graders. The Executive Functions curriculum is designed to help students plan, organize, make decisions, pay attention, regulate behavior, solve problems, and evaluate decisions. Time management strategies, assessing strengths, goal setting, and study skills are highlighted. The focus of Academic Enhancement is to support students taking collaborative classes and to support those transitioning to High School. Outcomes include improved performance in class and testing achievement. The class also helps provide homework support and extra content area skill practice for students with IEPs who are striving to succeed in academic core classes.

**Academic Enhancement II**

786886

Credit: 1

Grade: 11-12

Prerequisite: Academic Enhancement I

This course offers remedial support to 11<sup>th</sup> and 12<sup>th</sup> grade students preparing for graduation. The support is individually tailored for student needs. It includes remediation for 11<sup>th</sup> and 12<sup>th</sup> grade students who are required to retake SOL tests in order to graduate with a standard diploma. There is also VMAST preparation and support for students struggling to pass required courses and tests. This class includes an emphasis on test taking strategies, study skills, work completion, and assistance with writing papers. In extenuating circumstances, this course may be approved to serve as a sequential elective as demonstrated by a student's need.

**Human Relations**

780803

Credit: 1

Grade: 9-12

Prerequisite: None

Students participate in an activity-based class to achieve their competencies: increasing self-esteem, improving personal power, learning communication skills, and practicing goal setting. Specific ways of coping with frustrating or stressful situations are included.

**Independent Living Skills** 789613

Credit: 1

Grade: 9-12

Prerequisite: None

Students learn basic cooking and housekeeping skills as well as techniques to cope with daily life situations. Application of reading, writing, and math skills will be emphasized in real-life activities. Communication skills are developed as well as interpersonal relationships. Instruction will be individualized to meet the needs of the student. This course does not count as a credit toward a Standard Diploma.

**Individualized Reading I** 118413

Credit: 1

Grade: 9-12

Prerequisite: None

This course is designed to help students become more effective readers through individually designed reading programs. The course of study is based on each student's individual needs, goals, and interests. Students read a variety of fiction and nonfiction materials. Emphasis is placed on comprehension, vocabulary development, and study skills.

**Individualized Reading II** 118513

Credit: 1

Grade: 9-12

Prerequisite: Individualized Reading I

This course is a continuation of Individualized Reading I and is designed to help students become more effective readers.

## WORLD LANGUAGES



### Course Sequencing in World Language

Students enrolled in a Level I world language course are strongly encouraged to enroll in Level II the following term.

### Board of Education Seal of Biliteracy

Students who attain a high level of proficiency in one or more languages in addition to English may be eligible for the Board of Education Seal of Biliteracy. See the section on diploma seals in the front section for further information.

### Native and Heritage Speakers

A student who is a native or heritage speaker of a language other than English may receive up to two world languages by demonstrating a minimum proficiency level of novice high in all four language domains as determined by a proficiency assessment administered by the school division. The student may then be placed in a level II or III language course (or Fluent Speakers course) to complete the series of world language credits required for the Advanced Studies and Advanced Technical Diplomas.

### Students in the ESL Program

Students in the ESL program may earn up to two world language credits by successfully completing ESL Content Support in English, ESL Content Support in History and Social Science, ESL Resource, ESL content support in Mathematics and/or ESL Reading.

<b>Arabic I</b>	<b>501005</b>
<b>French I</b>	<b>511005</b>
<b>German I</b>	<b>521005</b>
<b>Spanish I</b>	<b>551005</b>
<b>Turkish I</b>	<b>599905</b>

Credit: 1

Grade: 9-12

Prerequisite: None

This course is designed to give students an introduction to the target language and culture through a comprehensive approach designed to develop the fundamental communication skills of listening, speaking, reading, and writing. Students will explore traditions, dress, food, holidays and customs in countries speaking the target language and compare cultures of those countries with their own environment. Turkish I will be offered at FHS and LHS if staffing/funding permits.

<b>Arabic II</b>	<b>502005</b>
<b>French II</b>	<b>512005</b>
<b>German II</b>	<b>522005</b>
<b>Spanish II</b>	<b>552005</b>
<b>Turkish II</b>	<b>599915</b>

Credit: 1

Grade: 9-12

Prerequisite: Grade of C or better in Level I

Students continue to develop their communicative competence by interacting orally and in writing with other learners and speakers of the target language. This course is a continuation of Level I with a focus on communicating about students' immediate world and daily activities. Students will read material on familiar topics and write short, directed compositions. Emphasis will be placed on the use of authentic materials to learn about culture. Turkish II will be offered at FHS and LHS if staffing/funding permits.

<b>Arabic III</b>	<b>503005</b>
<b>French III</b>	<b>513005</b>
<b>German III</b>	<b>523005</b>
<b>Spanish III</b>	<b>553005</b>
<b>Turkish III</b>	<b>599925</b>

Credit: 1

Grade: 9-12

Prerequisite: Grade of C or better in Level II

In this course, students continue to develop their communicative competence by interacting orally and in writing with other learners and speakers of the target language, understanding oral and written messages, and making oral and written presentations in the target language. They will begin to show a greater level of accuracy when using basic language structures, and they are exposed to more complex features of the language. They will continue to focus on communicating about their immediate world and daily activities. The emphasis will continue to be placed on the use of authentic materials to learn about culture. Turkish III will be offered at FHS and LHS if staffing/funding permits.

### Advanced French Literature and Culture 510505

Credit: 1

Grade: 10-12

Prerequisite: Successful completion of French III

Students in Advanced French Literature and Culture will engage in a variety of language activities that further reinforce French language acquisition. Students experience, discuss, and analyze expressive products of culture including music, dance, drama, and selections from various literary genres. Reading and writing for specific purposes will also continue development of language skills. Note: This course is not sequential and may be taken at any time following French III. Students are strongly advised to take this course before the French Language Advanced Placement course.

**Arabic IV** 504095  
**German IV** 524005  
 Credit: 1  
 Grade: 10-12  
 Prerequisite: Grade of C or better in Level III

Students in Level IV experience, discuss, and analyze stories, poetry, music, paintings, dance and drama in the target language including selections from various literacy genres. Reading and writing for specific purposes enhances the development of language skills.

**French IV** **DE** 514007  
**Spanish IV** **DE** 554007  
 Credit: 1  
 Grade: 10-12  
 Prerequisite: Grade of C or better in Level III or Spanish for Fluent Speakers

This is the equivalent of a college-level course in conversation and composition. The goal of the course is to use core topics to refine students' listening and speaking skills, and improve their reading comprehension, grammar and composition through interpersonal, interpretive, and presentational communication. It is designed to provide high school students with a rigorous collegiate experience in the study of the target language. It incorporates the communicative skills identified by the College Board and selected readings from the AP Literature reading list to prepare students wishing to enroll in the AP/DE course of studies. Students who successfully complete the class may earn three college credits. Students who do not pay the DE tuition charge will only receive high school credit.

**French Language AP** 517018  
**Spanish Language AP** 557018  
 Credit: 1 **AP DE**  
 Grade: 11-12  
 Prerequisite: Grade of C or better in Level IV

AP Language Dual Enrollment (DE) is the equivalent of a more advanced college-level language course. It is designed to provide high school students with a rigorous collegiate experience in the study of the target language. It incorporates the communicative skills identified by the College Board and selected readings from the AP Literature reading list to prepare students for successful completion of the AP Language Exam. Students may be asked to complete pre-course assignments. Students who successfully complete this class may earn three college credits. Students who do not pay the DE tuition charge will only receive high school credit.

**Spanish Literature AP** 558008  
 Credit: 1 **AP**  
 Grade: 11-12  
 Prerequisite: Grade of C or better in Spanish IV

The purpose of this course is to prepare students for the Advanced Placement Spanish Literature exam.

Students study literature written by authors recommended by the College Board. Students may be asked to prepare by completing pre-course assignments. They present written and oral literary analyses in preparation for the Advanced Placement Literature exam.

**German Language AP** 527008  
 Credit: 1 **AP**  
 Grade: 11-12  
 Prerequisite: Grade of C or better in German IV

The purpose of this course is to prepare students for the Advanced Placement German Language exam. All previous foreign language coursework is incorporated to provide a comprehensive language base for successful completion of the AP Language exam.

### Classical Language Courses

**Latin I** 531005  
 Credit: 1  
 Grade: 9-12  
 Prerequisite: None

In Latin I, students will focus on reading Latin. Since Latin is primarily a written language, this focus will continue through AP Latin. Latin grammar and vocabulary will be two main building blocks. English derivatives, reading skills, and basic translation skills will contribute as well. In addition to the Latin language study, Latin I students will learn about Roman life and culture with particular attention to daily life in Pompeii, Alexandria, and Roman Britain, as well as travel, slavery, mythology, and ancient geography.

**Latin II** 532005  
 Credit: 1  
 Grade: 9-12  
 Prerequisite: Grade of C or better in Latin I

In Latin II, students will continue to develop reading and translation skills in pursuit of the program goal of reading Latin. Latin II continues the grammar and vocabulary development of Latin I with an emphasis on new verb tenses and voices. Students will expand their knowledge of Roman life and culture through the study of travel, city life, food, entertainment, history, and government.

**Latin III** 533005  
 Credit: 1  
 Grade: 10-12  
 Prerequisite: Grade of C or better in Latin II

Latin grammar and vocabulary study continue in Latin III, with the inclusion of the last major verb mood and a variety of subordinate clauses. The focus shifts increasingly to reading for content over reading for skill as students approach the goal of reading Latin. Gladiators and games, weddings and funerals, religion, politics, and the Roman military are parts of Roman life and culture studied in this class.

**Latin IV** 534005Credit: 1 **DE**

Grade: 10-12

Prerequisite: Grade of C or better in Latin III

This course focuses on the reading of Latin literature. The advanced grammar and vocabulary included in it will help students to read, translate and analyze prose and poetry by a variety of Latin authors, such as Pliny the Younger, Cicero, Vergil, Caesar, Ovid, Catullus, Martial, Plautus and Horace. Students will develop a deeper understanding of the individual readings and of Romans in general through these authors' works.

**Latin AP Vergil/Caesar** 537008Credit: 1 **AP DE**

Grade: 11-12

Prerequisite: Grade of C or better in Latin IV

Students will prepare for the AP Vergil exam by reading the complete Aeneid in English and translating the Latin excerpts required by the Advanced Placement Syllabus. Their comprehension of Roman poetry will broaden and deepen as this course focuses on Vergil's epic poem. Roman history, culture, religion, and mythology will also be used to supplement understanding of this poem. Oral and written analysis will also be required as preparation for the AP Vergil exam.

**SPANISH FOR FLUENT SPEAKERS COURSES**

Students may be placed in Spanish for Fluent Speakers Level I or II based on language proficiency assessment results. Students are encouraged to continue with Dual Enrollment and AP Spanish courses.

**Spanish for Fluent Speakers I** 551105

Credit: 1

Grade: 9-12

Prerequisite: Language Proficiency Assessment Preferred

This course is designed specifically for native or heritage speakers of Spanish with oral proficiency but little or no formal training in the language. The course is designed to build on the language skills students already possess. The focus of the course is to develop reading and writing skills, although all of four language domains of listening, speaking, reading, and writing will be included. This course will count for a world language credit and students are encouraged to go on to take Spanish IV DE and Spanish AP as appropriate for the Advanced Studies diploma requirement.

**Spanish for Fluent Speakers II** 552105

Credit: 1

Grade: 9-12

Prerequisite: Completion of Spanish for Fluent Speakers I or recommendation by teacher based on assessment of student's skills

This course is designed specifically for native or heritage

speakers of Spanish with intermediate to advanced literacy proficiency levels. The course is designed to build on the language skills students already possess, instill pride in a rich heritage, and allow students to succeed to their full potential. The focus of the course is to further enhance reading and writing skills, although all of four language domains of listening, speaking, reading, and writing will be included. This course will count for a world language credit and students are encouraged to go on to take Spanish IV DE and Spanish AP.

**AMERICAN SIGN LANGUAGE COURSES****American Sign Language I**

599005

Credit: 1

Grade: 9-12

Prerequisite: None

Introduces the fundamentals of American Sign Language (ASL) used by the Deaf Community, including basic vocabulary, syntax, finger spelling and grammatical non-manual signals. In addition, instruction focuses on communicative competence, developing gestural skills as a foundation for ASL enhancement, and introducing cultural knowledge and increasing understanding of the Deaf Community. **Note: American Sign Language I, if offered based on staffing and funding, could be a year-long, alternating day course.** Students wishing to complete the World Language requirements for the Advanced Studies Diploma, may still need to take two years of another world language in addition to American Sign Language I & II.

**American Sign Language II**

599505

Credit: 1

Grade: 9-12

Prerequisite: American Sign Language I

Develops vocabulary, conversational competence, and grammatical knowledge as well as introducing increasingly complex grammatical aspects, including those unique to ASL. Students will also discuss culture and literature. Contact with the Deaf Community is encouraged to enhance linguistic and cultural knowledge. **Note: American Sign Language I, if offered based on staffing and funding, could be a year-long course, alternating day course.** Students wishing to complete the World Language requirements for the Advanced Studies Diploma, may still need to take two years of another world language in addition to American Sign Language I & II.

## ADDITIONAL COURSES

### **Academic Coaching** 011145

Credit: 1

Grade: 10-12

Prerequisite: None

The purpose of this academic support course is to teach students how to work strategically in multiple content areas. Students will learn how to apply organizational, learning, studying, and time management strategies so that they are able to prepare for classes, ready to take tests, and are able to successfully meet project and assignment deadlines. This course is recommended for a variety of students including student-athletes who need help scheduling and completing homework and class projects, first-time AP students who need assistance managing the demands of rigorous reading and homework assignments, students which have part-time jobs or any student who needs support in organizing, scheduling, and keeping up with their academic responsibilities.

### **Empower Open Source Learning** 982645

Credit: 1

Grade: 11-12

Prerequisite: None

This course is designed for students to work on projects that interest them to gain skills and knowledge in that particular area. In this course, students will use a variety of resources to learn how to do most anything that interests them. This course gives students a collaborative and creative place to explore and develop skills in an area they may be interested in (for example, financial management, web design, nutritional wellness, event production, video production, machine tooling, 3D printing, coding, fashion design, and repair, etc.). Students will work with community organizations to utilize their skills in a professional way, problem solve and be project based.

### **Freshman Seminar** 012845

Credit: 1

Grade: 9

Prerequisite: None

This academic support course promotes a positive attitude toward school; prepares students for success in school; links students' daily learning to future goals; encourages life-long learning and the practice of social and civic responsibility. The interdisciplinary seminar is taught by teachers from the core areas of English, History and Social Science, Mathematics and Science. It consists of in-depth lessons that use a variety of both innovative and traditional teacher techniques, including long-term projects, cooperative learning activities, and technology. Enrollment has traditionally been limited to students in the Freshman Transition Program.

### **Student Run Help Desk**

011805

Credit: 1

Grade: 10-12

Prerequisite: None

This elective course is designed for students who have an interest in technology, are tech-savvy, and want real work experience like working at an "Apple Genius Bar." The Student Run Help Desk curriculum strives to give students real world learning opportunities through providing technology support and developing an individual learning endeavor (ILE). You will be the Tech Help Desk for your peers and teachers at your high school.

### **Teachers for Tomorrow I**

011815

### **Teachers for Tomorrow II**

011825

Credit: 1

Grades: 10-12

Prerequisite: None for Teachers for Tomorrow I, For Teachers for Tomorrow II, successful completion of Teachers for Tomorrow I

Teachers for Tomorrow is offered to Juniors and Seniors interested in pursuing a career in education. The program is designed to create a high school curricular experience designed to foster student interest, understanding, and appreciation of the teaching profession through exposure to a world-class curriculum and hands-on experience that focuses on teaching. Students in this class will complete a three-week field experience allowing them to be fully immersed in a real classroom experience.



<b>Liberty High School Innovation Grant Courses</b>
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**Anthropology** 237405

Credit: 1

Grade: 9-12

Prerequisite: None

This course focuses on the study of humankind and will take an interdisciplinary look at the human experience. Students will explore the general principles of the four subfields of anthropology including: archaeology, physical/biological anthropology, cultural biology, and linguistics of anthropology. Students will examine key questions about human diversity past, present and future and look at how anthropology can be applied to help solve modern problems.

**Data Science** 319945

Credit: 1

Grade: 10-12

Prerequisite: Algebra I

This course will introduce students to the main ideas in data science through free tools such as Google Sheets, Python, Data Commons, and Tableau. Students will learn to be data explorers in project-based units, through which they will develop their understanding of data analysis, sampling, correlation/causation, bias and uncertainty, probability, modeling with data, making and evaluating data-based arguments, the power of data in society, and more! At the end of this course students will have a portfolio of their data science work to showcase their newly developed abilities. The curriculum will be adaptable so that teachers can bring in datasets or use what is provided to find data sets most relevant to their students.

**Global Studies** 299645

Credit: 2

**SOL**

Grade: 9

Prerequisite: None

Global Studies is a one-semester survey of World History from Pre-History to the present. This course incorporates the big ideas from both World History I and World History II curricula. This broad approach to World History features the biggest turning points in history while helping students develop their reading, writing, research, technology and public speaking skills. Course content will focus on the causes and effects of the biggest events in human history. This includes the rise of civilization, the development of world religions, global exploration, imperialism and responses to imperialism, industrialization, and the clashing of ideologies in the 20<sup>th</sup> Century.

**Medical Assistant I** 011855

Credit: 1

Grade: 11-12

Prerequisite: Intro to Health and Medical Sciences

This course is designed for students who have an interest in pursuing and career in the medical field. This is part one

of two courses. Medical Assistant I allow students to develop entry-level skills and techniques to increase their knowledge base so they may enter the health care field. Some of these skills and knowledge base areas include administrative and clinical medical assisting. Students gain foundational knowledge in basic anatomy and physiology, medical ethics, medical asepsis, terminology, medical mathematics, and legal responsibilities. Additionally, students explore medical assisting career pathways through Health Occupations Student Association (HOSA) and potential on-the-job clinical instruction and/or observation in a healthcare facility.

**Medical Assistant II**

011865

Credit: 1

Grade: 11-12

Prerequisite: Medical Assistant I

This course is designed for students who have an interest in pursuing and career in the medical field. This is the second part of a two-part course. Students further develop medical-assisting skills and techniques skills and techniques learned in Medical Assistant I. They learn management of patient records, cardiopulmonary resuscitation, care and use of equipment, collection and analysis of laboratory specimens, special diagnostic testing, basic diseases and disorders, basic knowledge of treatment and medication. In addition, they will acquire job preparedness skills. Additionally, students explore medical assisting career pathways through Health Occupations Student Association (HOSA) and potential on-the-job clinical instruction and/or observation in a healthcare facility. Students will take the NOCTI assessment will have the option to take the Certified Medical Assistant (AAMA) certification at the end of the course.

**Peer Tutoring I**

980715

Credit: 1

Grade: 10-12

Prerequisite: None

Students enrolled in Peer Tutoring I are responsible for operating the schools peer tutoring center. They will learn a variety of pedagogical approaches and practice leadership skills that will serve them in their future professions. In addition to tutoring, students will strengthen their own knowledge in areas such as study habits, resume writing, and research skills. Students will tutor in the peer tutoring center itself as well as have opportunities to be "hired" by individual teachers to work with classes.

**Peer Tutoring II**

980725

Credit: 1

Grade: 10-12

Prerequisite: Peer Tutoring I

Students in Peer Tutoring II apply the knowledge they gained in Peer Tutoring I to take on an enhanced leadership role in the peer tutoring center. They will contribute to managing center operations, mentoring new tutors, and heightening school-wide academic achievement. They will make at least one significant contribution to the wider peer tutoring community; for example, by presenting at a conference or publishing a scholarly article.

### **Peer Tutoring III** 980735

Credit: 1

Grade: 11-12

Prerequisite: Peer Tutoring II

Building on the leadership skills they established in Peer Tutoring II, tutors in Peer Tutoring III apprentice with a sponsor teacher for the duration of the school year, engaging in a deep study of the educator's approach to instruction in his or her academic field. These seniors will also work with a consistent group of clients on an ongoing basis. They will report on their learning via regular reflection logs, and both create a portfolio of their learning across their three years as a tutor, and innovate a permanent learning tool for the benefit of the school.

### **The Senior Experience** 116055

Credit: 1

Grade: 12

Prerequisite: English 11

The Senior Experience will offer students a way to "pave their own path" within the English curriculum and standards. Each student, based on their pathway post high school graduation, will propose and tailor their Senior Experience course to fit their needs to be life ready. Students would be required to submit a proposal for approval, apply for and attain either an internship or shadowing opportunity to use as research and reflection, and submit a product addressing each of the Standards of Learning for the English 12 curriculum.

### **Unified Music** 921405

Credit: 1

Grade: 9-12

Prerequisite: None

Unified Music is designed for students to experience a wide variety of musical topics, especially those which require teamwork and cooperation. Students learn topics in music appreciation, basic singing technique, music literacy skills, and participate in music and movement activities. Students perform concerts at school and sing in the community when invited. The curriculum is modified to meet the skill sets of students with disabilities. Students without disabilities will participate as mentors for students with disabilities: experiences will give them skills and techniques for working with different populations and help them develop leadership skills.

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