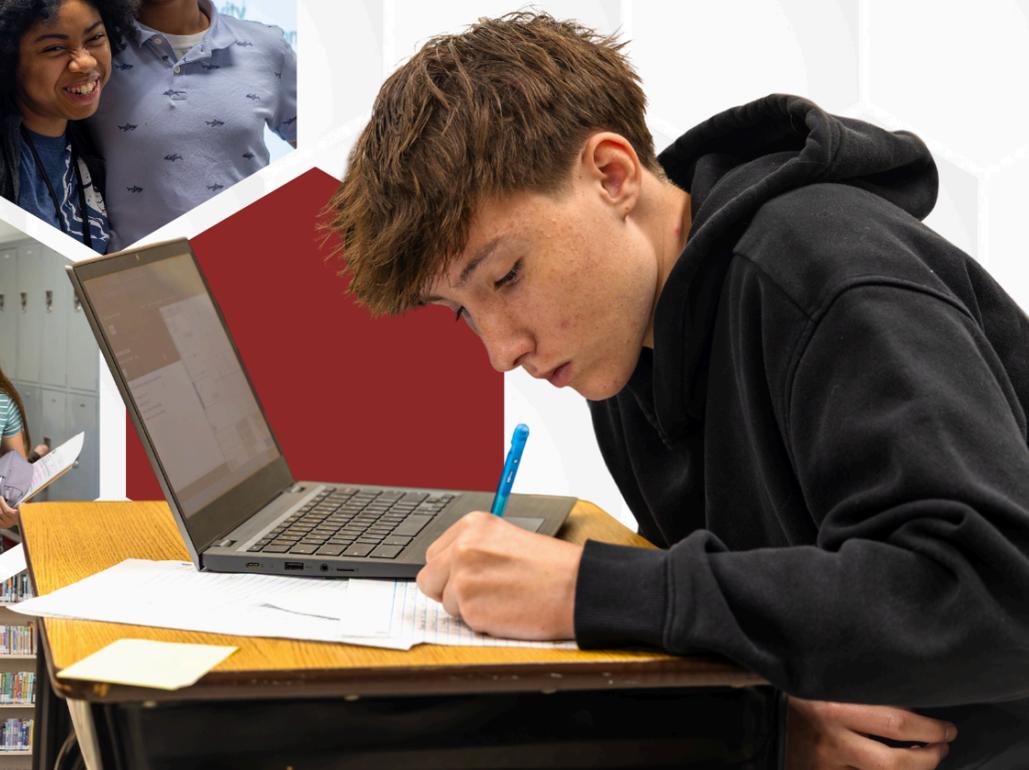


2026-2027

PROGRAM OF STUDIES



Stafford County Public Schools
31 Stafford Avenue, Stafford, VA 22554
www.staffordschools.net/academics

#ElevateStafford



Dear Stafford County Families,

At Stafford County Public Schools, every student's education is a journey, one that builds knowledge, skills, and experiences to prepare them for life after high school. The Program of Studies is designed to guide students and families through that journey by highlighting opportunities to explore interests, develop strengths, and set meaningful goals. This work reflects Goal 1 of our Strategic Plan, which commits us to ensuring meaningful postsecondary outcomes for every student so they are prepared for life after graduation.

This guide provides clear information about graduation requirements, course options, and pathways that connect learning in school to careers and real-world opportunities. It is a resource for families to engage in thoughtful conversations with students and school counselors, helping ensure each student's choices reflect their personal interests and aspirations. In doing so, it advances Goal 2 of our Strategic Plan, supporting high expectations for academic performance while expanding opportunities for every student.

All courses at Stafford Schools align with the Virginia Board of Education's Standards of Learning (SOL), providing a strong foundation in core subjects such as English, mathematics, science, and history. Specialty programs and electives further enrich students' experiences, fostering curiosity, creativity, and preparation for future success. These offerings are part of our efforts to maintain a safe, engaging, and welcoming environment for all students and families, consistent with Goal 3 of the Strategic Plan.

Finally, we recognize that meaningful learning is supported by excellent educators. Our staff members are the heart of Stafford Schools, and the instruction, guidance, and support they provide are tied directly to Goal 4 of the Strategic Plan, investing in and supporting staff so they can deliver the very best for our students.

We encourage families to use this Program of Studies as a roadmap for making informed decisions and supporting each student's unique journey toward achievement and lifelong learning. We look forward to another great school year filled with growth, discovery, and success for every student.

Sincerely,

Daniel W. Smith, Ed.D.
Superintendent

School Board Members

Ms. Susan Randall
George Washington District

Ms. Patricia Healy
Rock Hill District

Ms. Maya Guy
Aquia District

Dr. Sarah Chase
Falmouth District

Ms. Maureen Siegmund
Garrisonville District

Dr. Elizabeth Warner
Griffis-Widewater District

Ms. Alyssa Halstead
Hartwood District

Vision

Prepared to Excel

Mission

Inspire and empower every student.

Values

Students, Integrity, Respect, Community, Opportunity, Excellence

Goals

Goal 1	Goal 2	Goal 3	Goal 4
Ensure meaningful post-secondary outcomes for every student, prepared for life after graduation.	Support high expectations for academic performance and expand opportunities for every student.	Ensure every student, staff, and family member receives a safe, engaging, and welcoming environment in our schools.	Support and invest in all staff.



At Stafford Schools, every graduate will excel in:

COMMUNICATION

Stafford graduates exchange thoughts and ideas effectively using oral, written, and nonverbal communication skills across different contexts.

COLLABORATION

Stafford graduates demonstrate empathy, flexibility, and the ability to compromise and self-reflect while working together to achieve common goals.

CRITICAL THINKING

Stafford graduates engage in inquiry, experimentation, analysis, problem solving, and informed decision making.

CREATIVITY

Stafford graduates develop innovative ideas and original work.

CITIZENSHIP

Stafford graduates make a positive impact in our community through leadership, service, empathy, respect, and integrity.

WELLNESS

Stafford graduates are aware of and attend to their physical, emotional, and mental well-being.

Inspiring and empowering every Stafford graduate to excel in college, careers, and life.



COMMUNICATION

- I respectfully exchange my thoughts and ideas with others.
- I clearly express my ideas in a variety of formats and contexts.
- I listen actively to others and am present in conversation.
- I value other voices and ideas, even when I encounter challenging conversations.
- I can give, receive, and reflect on feedback.
- Elevate to Future Ready: I can effectively communicate in a variety of settings in a professional manner.**



COLLABORATION

- I encourage others through my words, actions, and responses to feedback.
- I am a productive member of a community.
- I take initiative in building a team of individuals to tackle complex problems.
- I actively reflect on my role and adapt in a team setting.
- I am self-aware of my preconceived notions and biases and appreciate different perspectives and experiences.
- Elevate to Future Ready: I can effectively utilize my skill sets to contribute to the completion of a task or project.**

CRITICAL THINKING

- I seek and recognize patterns and connections between my prior knowledge and new information.
- I can determine the validity of a variety of sources.
- I know how to analyze and evaluate information to draw conclusions.
- I question, experiment, and develop solutions for real-world challenges.
- I can predict likely outcomes of different solutions to an academic or real-world problem and select the best option.
- Elevate to Future Ready: I can be trusted to make decisions in my role that benefit the organization.**



CREATIVITY

- I am flexible in my thinking in order to generate new ideas and build on existing ones.
- I ask thoughtful questions and learn from experiences.
- I pursue imaginative approaches and solutions to challenges.
- I take calculated risks and embrace failure as an opportunity to learn and grow.
- I embrace iterative design and feedback from others to enhance my creative process.
- Elevate to Future Ready: I can generate creative solutions to problems in the workplace.**

CITIZENSHIP

- I contribute to my community through my words, actions, and service.
- I respect others' perspectives, cultures, and values, and affirm the unique contributions of all community members.
- I recognize and take responsibility when my actions have caused harm and learn and grow from my mistakes.
- I understand that citizenship is not a single act but involves regular participation.
- I understand the permanency and impact of my digital footprint.
- Elevate to Future Ready: I will make a positive impact in my community.**



WELLNESS

- I advocate for myself and others to maintain a positive environment.
- I make healthy, conscious choices in the best interest of myself and others.
- I am resilient and identify ways to handle stressful situations properly and respectfully.
- I seek support and assistance in order to maintain my overall wellness.
- I encourage open and non-judgmental conversations about emotions and mental well-being.
- Elevate to Future Ready: I can utilize previously identified and new resources to support my post-secondary experiences and journey through adulthood.**

Acknowledgements

Development of the 2026-2027 Program of Studies would not be possible without the experience, expertise, and collaboration among Stafford Schools central and school-based staff.

Editorial Notation

The Superintendent may authorize technical and editorial changes to the Program of Studies.

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School Contacts



Elementary Schools

SCHOOL	PRINCIPAL	TELEPHONE
Anne E. Moncure Elementary	Greg Machi	(540) 658-6300
Anthony Burns Elementary	Caroline Goddard	(540) 658-6800
Conway Elementary	Mark Hayden	(540) 361-1455
Falmouth Elementary	Ashley Hall	(540) 373-7458
Ferry Farm Elementary	Rachel Novak	(540) 373-7366
Garrisonville Elementary	Nicole Clemente	(540) 658-6260
Grafton Village Elementary	Michael Sidebotham	(540) 373-5454
Hampton Oaks Elementary	Susan Weiderhold	(540) 658-6280
Hartwood Elementary	Brian Raska	(540) 752-4441
Kate Waller Barrett Elementary	Christina Herrera	(540) 658-6464
Margaret Brent Elementary	Scott Elchenko	(540) 658-6790
Park Ridge Elementary	Niki Simms	(540) 658-6320
Rockhill Elementary	Jessica Corwin	(540) 658-6360
Rocky Run Elementary	Nick Roman	(540) 286-1956
Stafford Elementary	Stefanie Sanders	(540) 658-6340
Widewater Elementary	Alicia Galloway	(540) 658-6380
Winding Creek Elementary	Rebecca Wardlow	(540) 658-6400

Middle Schools

SCHOOL	PRINCIPAL	TELEPHONE
A.G. Wright Middle	Carly Hegna	(540) 658-6240
Dixon-Smith Middle	Andrew Bathke	(540) 899-0860
Edward E. Drew Middle	Amy Ivory	(540) 371-1415
H.H. Poole Middle	Moneka Coats	(540) 658-6190
Rodney Thompson Middle	Mike Archambault	(540) 658-6420
Shirley C. Heim Middle	Matthew Hills	(540) 658-5910
Stafford Middle	Andrew Grider	(540) 658-6210
T. Benton Gayle Middle	Deanna Fierro-Kin	(540) 373-0383

High Schools

SCHOOL	PRINCIPAL	TELEPHONE
Brooke Point High School	Joseph Murgo	(540) 658-6080
Colonial Forge High School	Teri Hampton	(540) 658-6115
Hartwood High School	Mike Kelly	TBD
Mountain View High School	Stefanie Sullivan	(540) 658-6840
North Stafford High School	Dashan Turner	(540) 658-6150
Stafford High School	Chelsea Tryon	(540) 371-7200
Phoenix Center for Innovative Learning	William Boatwright	(540) 286-8985



GENERAL INFORMATION



2026-2027

PROGRAM OF STUDIES

General Information

Graduation Requirements

The [graduation requirements](#) for students entering ninth grade for the first time in 2018-2019 and beyond are prescribed by the Virginia Board of Education in section [8VAC20-131-51](#) of the [Standards of Accreditation \(SOA\)](#). Students must meet the requirements that correspond to the year in which the student first entered ninth grade.

Students entering the ninth grade for the first time in the fall of 2018 and beyond will be required to satisfy graduation requirements for one of three diplomas: (1) a 22-credit Standard Diploma; (2) a 26-credit Advanced Studies Diploma; or (3) an Applied Studies Diploma. See the corresponding sections below for information regarding required standard and verified units of credit.

The Applied Studies Diploma is established for certain students who have a disability and who are not able to meet the credit requirements for a Standard Diploma. Student eligibility for this diploma is determined by the Individualized Education Plan (IEP) team, the student, and the parent/guardian(s). The Applied Studies Diploma is for students whose disabilities require a unique program of study.

Standard and Verified Units of Credit

A standard unit of credit is awarded for a successfully completed course. 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 SOL assessment or a substitute assessment approved by the Virginia Board of Education. Schools may award standard units of credit via waiver of the 140-clock-hour requirement based on criteria set forth in [Regulation 3609-R](#).

Standard Diploma Requirements

Course Area	9th Graders for the First Time in Fall of 2018 and Beyond	
	Standard Credits	Verified Credits
English	4	2
Mathematics ¹	3	1
Lab Science ^{2, 6} – Earth Science, Biology, one additional Science course	3	1
History ^{3, 6} – World History to 1500/World Geography or World History after 1500/World Geography, Virginia/United States History, and Virginia/United States Government	3	1
Health and Physical Education	2	
World Language, Visual and Performing Arts or Career & Technical Education ⁷	2	
Economics and Personal Finance	1	
Electives ⁴	4	
TOTAL	22	5

¹Courses completed to satisfy this requirement shall include at least two different course selections from among: Algebra I; Geometry; Algebra, Functions and Data Analysis; Algebra II or other mathematics courses above the level of Algebra II. The Board shall approve courses to satisfy this requirement. An approved computer science course credit earned by students may be considered a mathematics course credit.

²Courses completed to satisfy this requirement shall include course selections from at least two different science disciplines: earth sciences, biology, chemistry or physics or completion of the sequence of science courses required for the International Baccalaureate Diploma. The Board shall approve courses to satisfy this requirement. An approved computer science course credit earned by students may be considered a mathematics course credit.

³Courses completed to satisfy this requirement shall include US and Virginia History, US and Virginia Government, and one

course in either world history or geography or both. The Board shall approve courses to satisfy this requirement.

⁴Courses to satisfy this requirement shall include at least two sequential electives. More information is provided in the [Guidance Document Governing Certain Provisions of the SOA \(8VAC-20-131\)](#) (MS Word).

⁵Students may utilize additional tests for earning verified credit in computer science, technology, career and technical education, economics or other areas as prescribed by the Board in 8 VAC 20-131-110.

⁶Students who complete a career and technical education program sequence and pass an examination or occupational competency assessment in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, or trade or professional association or acquires a professional license in a career and technical education field from the Commonwealth of Virginia may substitute the certification, competency credential, or license for (1) the student selected verified credit and (2) either a science or history and social science verified credit when the certification, license, or credential confers more than one verified credit. The examination or occupational competency assessment must be approved by the Board of Education as an additional test to verify student achievement.

⁷Pursuant to Section 22.1-253.13:4, *Code of Virginia*, credits earned for this requirement shall include one credit in fine or performing arts or career and technical education. An approved computer science course credit earned by students may be considered a career and technical course credit.

Students seeking a Standard Diploma must also:

- complete an Advanced Placement (AP), Honors, Dual Enrollment (DE), International Baccalaureate (IB) course, high quality work-based learning experience, or a career and technical education credential approved by the Virginia Board of Education;
- successfully complete a virtual learning course. This course can be fully online or a blended online learning experience. In Stafford Schools, this requirement is satisfied through the Economics and Personal Finance curriculum in grades 10-12; and
- be trained in emergency first aid, cardiopulmonary resuscitation, and the use of an automated external defibrillator, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation. In Stafford Schools, this requirement is included in the Health and Physical Education curriculum in grades 9 and 10.

Advanced Studies Diploma Requirements

Course Area	9th Graders for the First Time in Fall of 2018 and Beyond	
	Standard Credits	Verified Credits
English	4	2
Mathematics ¹	4	1
Lab Science ^{2, 6} – Four (4) courses from among three of these Lab Science areas: Earth Science, Biology, Chemistry, and Physics	4	1
History ^{3, 6} – World History to 1500/World Geography, World History after 1500/World Geography, Virginia/United States History, and Virginia/United States Government	4	1
Health and Physical Education	2	
World Languages (3 years of one language or 2 years each of two languages, 2+2 option)	3 (or 4)	
Economics and Personal Finance	1	
Electives ⁴	3 (or 2)	
Fine Arts or Career and Technical Education ⁷	1	
TOTAL	26	5

¹Courses completed to satisfy this requirement shall include at least three different course selections from among: Algebra I; Geometry; Algebra, Functions and Data Analysis; Algebra II or other mathematics courses above the level of Algebra II. The Board shall approve courses to satisfy this requirement. An approved computer science course credit earned by students may be considered a mathematics course credit.

²Courses completed to satisfy this requirement shall include course selections from at least three different science disciplines: earth sciences, biology, chemistry or physics or completion of the sequence of science courses required for the International Baccalaureate Diploma. The Board shall approve courses to satisfy this requirement. An approved [computer science](#) course credit earned by students may be considered a mathematics course credit.

³Courses completed to satisfy this requirement shall include U.S. and Virginia history, U.S. and Virginia government, and two courses in either world history or geography or both. The Board shall approve courses to satisfy this requirement.

⁴Courses to satisfy this requirement shall include at least two sequential electives. More information is provided in the [Guidance Document Governing Certain Provisions of the SOA \(8VAC-20-131\)](#) (MS Word). A student's first three world language credits may not be used to meet the sequential requirements.

⁵Students may utilize additional tests for earning verified credit in computer science, technology, career and technical education, economics or other areas as prescribed by the Board in 8 VAC 20-131-110.

⁶Students who complete a career and technical education program sequence and pass an examination or occupational competency assessment in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, or trade or professional association or acquires a professional license in a career and technical education field from the Commonwealth of Virginia may substitute the certification, competency credential, or license for (1) the student selected verified credit and (2) either a science or history and social science verified credit when the certification, license, or credential confers more than one verified credit. The examination or occupational competency assessment must be approved by the Board of Education as an additional test to verify student achievement.

⁷Pursuant to Section 22.1-253.13:4, *Code of Virginia*, credits earned for this requirement shall include one credit in fine or performing arts or career and technical education. An approved computer science course credit earned by students may be considered a career and technical credit.

Students seeking an Advanced Studies Diploma must also:

- complete an Advanced Placement (AP), Honors, Dual Enrollment (DE), International Baccalaureate (IB) course, high quality work-based learning experience, or a career and technical education credential approved by the Virginia Board of Education;
- successfully complete a virtual learning course. This course can be fully online or a blended online learning experience. In Stafford Schools, this requirement is satisfied through the Economics and Personal Finance curriculum in grades 10-12; and
- be trained in emergency first aid, cardiopulmonary resuscitation, and the use of an automated external defibrillator, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation. In Stafford Schools, this requirement is included in the Health and Physical Education curriculum in grades 9 and 10.

Work-Based Learning Opportunities

Work-Based Learning (WBL) consists of school-coordinated workplace experiences that are related to each student's career goals and/or interests, are integrated with instruction, and are performed in partnership with local businesses and organizations. WBL experiences enable students to apply classroom instruction in a real-world business or service-oriented work environment. The Virginia Department of Education (VDOE) recognizes 6 WBL experiences including apprenticeship, clinical experience, entrepreneurship, internship, school-based enterprise, supervised agricultural experience, and youth-registered apprenticeship. To learn more, visit the [WBL website](#).

WBL experiences reinforce Virginia's 5 C's—critical thinking, collaboration, communication, creative thinking, and citizenship—by allowing students to apply these skills in a real-world business or service-oriented work environment.

- Collaboration: Work with community members, peers, and mentors
- Communication: Write and present proposals; make requests and get permissions; publicize and present final projects
- Citizenship: Understand laws and regulations; seek to improve the community; increase community awareness
- Creativity: Publicize/advertise projects; solve problems; present findings
- Critical Thinking: Develop a project to meet a community need or solve a community problem

Stafford Schools currently support work-based learning experiences for students in the following ways:

- May be embedded within a Career and Technical Education (CTE) course under the direction of the instructor.
- Students may earn work-based learning experience outside of school when the work aligns with a CTE class. Experiences may include internships, externships, and apprenticeships.

- Ready S.E.T. Go is a 40-hour externship program where students participate in an immersive workplace experience during one school week.
 - [Ready S.E.T. Go Overview](#)
 - [Ready S.E.T. Go Application](#)
 - [Ready S.E.T. Go Application Schedule](#)
- Career and Technical Student Organizations (CTSOs): Co-curricular student organizations are supported in conjunction with CTE courses and include Distributive Education Clubs of America (DECA), Future Business Leaders of America (FBLA), Family Career and Community Leaders of America (FCCLA), Future Farmers Association (FFA), Health Occupation Student Association (HOSA), SkillsUSA, and Technology Student Association (TSA).

Students' knowledge, skills, and attitudes are enhanced by participation in supervised, authentic experiences. WBL experiences are valuable because they help students develop careers beyond their secondary and postsecondary education.

Applied Studies Diploma

This diploma is intended for students with an Individualized Education Plan (IEP) who require a unique educational program and do not meet the requirements of other diplomas. The student's IEP team and parent/guardian(s) determine eligibility and participation in this diploma program. For a student to earn an Applied Studies Diploma, the student must complete the requirements of his or her IEP.

NOTE: This program of studies contains accurate graduation requirements as of the publish date. State graduation requirements for each diploma are available on the [Virginia Department of Education website](#).

Other Diplomas and Certificates

The Virginia Board of Education allows for other diplomas and certificates, including high school equivalency. These options are outlined in Stafford's Policy Manual [3608-R](#).

Graduation Seals for Exemplary Performance

Students who demonstrate outstanding achievement may be eligible for one of the following Virginia Department of Education's graduation seals:

The **Governor's Seal** will be 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 earn the student at least nine transferable college credits in Advanced Placement (AP), Dual Enrollment (DE), Cambridge, or International Baccalaureate (IB) courses.

The **Virginia Board of Education Seal** will be awarded to students who complete the requirements for a Standard Diploma or Advanced Studies Diploma with an average grade of "A."

The **Career and Technical Education (CTE) 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 to satisfy these requirements. See The [Path to Industry Certification](#) for the current approved licenses and examinations.

The **Seal for Science, Technology, Engineering, and Mathematics (STEM)** is 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 CTE concentration (a concentration is a coherent sequence of two or more state-approved courses as identified in the course listing within the CTE Administrative Planning Guide); and
- pass one of the following:
 - (a) a Board of Education CTE STEM-H credential examination, or
 - (b) an examination approved by the Board that confers a college-level credit in a STEM field.

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

- Complete Virginia and United States History and Virginia and 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.

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; and
- 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.

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; and
- 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.

The **Governor’s STEM Academies Seal** is awarded to students who meet the requirements for the Advanced Studies or Standard Diploma and successfully complete the Stafford Academy for Technology (STAT) program.

The **Commonwealth Governor’s School Diploma Seal** is awarded to students who meet the requirements for the Advanced Studies or Standard Diploma and the requirements of the Commonwealth Governor’s School program.

The **International Baccalaureate (IB) Programme Seal** is awarded to students who meet the requirements for the Advanced Studies Diploma and successfully complete course requirements for the International Baccalaureate Programme.

The **Advanced Placement (AP) Capstone Seal** is awarded to students that fulfill the requirements of the Advanced Studies Diploma and earn scores of 3 or higher in the assessments associated with both AP Capstone courses (Research and Seminar) and on four additional AP exams of their choosing.

State-Required Assessments

The Standards of Learning (SOL) for Virginia Public Schools establish minimum expectations for what students should know and be able to do at the end of each grade or course in English, mathematics, science, history/social science, and other subjects. SOL tests in reading, writing, mathematics, science and history/social science measure the success of students in meeting the Virginia Board of Education's expectations for learning and achievement.

Each year, students in kindergarten through high school take state assessments, based on state and federal requirements to measure achievement, individual student growth, and to identify students who may be in need of additional support to succeed. In addition, some of the required end-of-year secondary assessments are used to verify a standard unit of credit awarded to a student.

As a result of legislation passed in the 2021 Virginia General Assembly, all Virginia Public Schools in the Commonwealth of Virginia are required to administer a mathematics and reading growth assessment in grades 3-8. School divisions can administer either the state SOL growth assessment or an alternate growth assessment that is approved by the Virginia Department of Education (VDOE). Stafford Schools administers an alternate growth assessment, the NWEA® Measures of Academic Progress (MAP) Growth Assessment.

The Virginia Board of Education requires students to earn a certain number of verified credits in order to graduate. A verified credit may also be earned by passing an approved substitute assessment or performance assessment. Students enrolling as ninth graders in 2018 and beyond must earn five verified credits for either the Standard or Advanced Studies Diploma. Additionally, federal guidelines require that all students be tested in high school in reading, math, and science at least once during their high school career. Once a student has earned the required number of verified credits in a content area, they will not take additional SOL assessments in that content area unless required to meet federal testing requirements. Once a student earns a passing score, the student may not retake a test to achieve a higher score. High school students have multiple opportunities to take SOL tests and earn the required verified credits needed for graduation.

Screening Assessments

State law and administrative code require certain screening assessments for all students. Assessments are subject to change based on state requirements and local implementation.

Virginia Language and Literacy Screening System (VALLSS)

VALLSS is a screening system that measures students' knowledge of several essential literacy fundamentals: language comprehension, decoding and encoding, vocabulary, and comprehension. VALLSS provides a direct means of matching literacy instruction to specific literacy needs and identifies those students who are at risk for developing reading difficulties. It can be used as a diagnostic tool to provide teachers with explicit information to help guide their teaching.

VALLSS PK-3 is administered to all students in grade PK-2 and selected students in grade 3. This assessment is designed to measure students' knowledge of literacy fundamentals in decoding, encoding, and language comprehension. VALLSS 4-8 is administered to selected students based on their SOL scores and focuses on reading fluency, vocabulary, morphology, and sentence comprehension.

For more information, please visit the University of Virginia's [Virginia Literacy Partnerships](#) website.

Virginia Kindergarten Readiness Program (VKRP)

The [Virginia Kindergarten Readiness Program](#) assessment measures mathematics, self-regulation, and social skills to complement Virginia's state-wide assessment of literacy using the VALLSS. This assessment is required of all Pre-Kindergarten and Kindergarten students.

Dynamic Indicators of Basic Early Literacy Skills (DIBELS)

As required by the Virginia Literacy Act of 2022, [DIBELS](#) is used as a progress monitoring tool assessing student acquisition of literacy skills. DIBELS is administered to certain students in grades K-1 and all students in grades 2-5.

ACCESS for English Language Learners

The [ACCESS for ELLs®](#) test is an English language proficiency assessment based on the Model Performance Indicators (MPIs) of the WIDA English language development (ELD) standards for students K-12. The ACCESS for ELLs® test assesses social and instructional English used within the school context as well as academic English associated with language arts, mathematics, science, and social studies across the four language domains of listening, speaking, reading, and writing. The ACCESS for ELLs® test is administered annually to EL students in grades K-12 to monitor their progress in acquiring English proficiency.

NWEA Measures of Academic Progress (MAP) Growth

Stafford Schools has selected the [NWEA MAP Growth](#) assessment to meet state growth testing requirements. The MAP Growth assessment provides teachers with accurate, actionable evidence to help inform instructional strategies regardless of how far students are above or below grade level. In addition, it assists teachers in finding common areas of need among their students, identifying students who could benefit from intervention and or extension, and determining which instructional strategies are generating the most academic growth. This assessment is administered in grades 3-8. In addition, Stafford also assesses student growth in grades 9 and 10 for reading and mathematics (Algebra I and Geometry), and for students in reading and mathematics developmental courses. High school students from selected classes are tested twice per year (beginning and middle of the year).

Elementary School Assessments

Elementary Grade Level	Virginia Standards of Learning or Other Assessment	Administration - Time of Year
Pre-Kindergarten	VALLSS VKRP	Beginning, Middle, and End Beginning, Middle, and End
Kindergarten	VALLSS VKRP	Beginning, Middle, and End Beginning, Middle (optional), and End
Grade 1	VALLSS	Beginning, Middle, and End
Grade 2	VALLSS	Beginning, Middle, and End
Grade 3	MAP Growth - Reading and Mathematics Grade 3 Reading SOL Assessment Grade 3 Mathematics SOL Assessment Grade 3 Science Performance Assessments Grade 3 Social Studies Performance Assessments	Beginning, Middle, and End (except Grade 3 Reading) End End Throughout Throughout
Grade 4	MAP Growth - Reading and Mathematics Grade 4 Reading SOL Assessment Grade 4 Mathematics SOL Assessment Virginia Studies SOL Assessment	Beginning, Middle, and End End End End
Grade 5	MAP Growth - Reading and Mathematics Grade 5 Reading (includes the Integrated Reading and Writing component) SOL Assessment Grade 5 Mathematics SOL Assessment Grade 5 Science (cumulative assessment - grade 4 and 5 science standards) SOL Assessment Grade 5 History and Writing Performance Assessments	Beginning, Middle, and End End End End Throughout

NOTE: The assessments listed in this chart are subject to change, based on state requirements and local implementation.

Middle School Assessments

Middle School Course	Virginia Standards of Learning or Other Assessment	Time of Year
Grade 6 English	MAP Growth Grade 6 Reading SOL Assessment	Beginning, Middle, and End End
Pre-Algebra 6	MAP Growth Grade 6 Mathematics SOL Assessment	Beginning, Middle, and End End
Pre-Algebra 6 Intensified	MAP Growth Grade 8 Mathematics SOL Assessment	Beginning, Middle, and End End
Grade 6 History	Grade 6 History Performance Assessments	Throughout
Grade 7 English	MAP Growth Grade 7 Reading SOL Assessment	Beginning, Middle, and End End
Pre-Algebra 7	MAP Growth Grade 8 Mathematics SOL Assessment	Beginning, Middle, and End End
Grade 7 Civics and Economics	Grade 7 Civics and Economics SOL Assessment	End
Grade 8 English	MAP Growth Grade 8 Reading SOL Assessment (includes the Integrated Reading and Writing component)	Beginning, Middle, and End End
Grade 8 Physical Science	Grade 8 Science SOL Assessment (cumulative assessment - grade 6-8 science standards)	End
English 9 and 10, Developmental Reading	MAP Growth	Beginning and Middle
Algebra I	MAP Growth Algebra I SOL Assessment	Beginning and Middle End
Honors Geometry	MAP Growth Geometry SOL Assessment	Beginning and Middle End

NOTE: The assessments listed in this chart are subject to change, based on state requirements and local implementation.

High School Assessments

State SOL assessments are administered upon completion of the courses listed in the following tables for Standard and Advanced Studies Diplomas if a student has not previously passed an SOL assessment in the content area. Students must obtain a verified credit from one course in each core content area to meet graduation requirements.

English 11	History	Science	Mathematics
Reading, Literature/Research (includes the Integrated Reading and Writing component) Writing	World History to 1500 AD World History 1500 AD to present (see LAVC below) Virginia and US History	Earth Science Biology Chemistry	Algebra I Geometry Algebra II

NOTE: The assessments listed in this chart are subject to change, based on state requirements and local implementation.

Locally-awarded Verified Credit in High School History

The Standards of Accreditation, 8VAC20-132-110, allow for locally-awarded verified credits in History. In order for a student to be eligible for a locally-awarded verified credit in history/social science, a student must pass the corresponding high school course and demonstrate mastery of the standards, competencies, and objectives of the entire course. Stafford Schools' verification process consists of evaluation of each student's collection of evidence, which includes a division multiple-choice test and responses to state-developed performance tasks. Performance tasks are scored locally using a state-developed rubric. Stafford Schools exercises this option for World History I and US/VA History.

Division-Selected Assessments

Stafford Schools has identified additional screening assessments that may be used to monitor and assess students and inform instruction. Assessments listed in this section are subject to change.

Cognitive Abilities Test (CogAT)

The [CogAT](#) is a multiple-choice assessment that measures reasoning skills using verbal, quantitative, and nonverbal questions. The CogAT is administered to all students in second grade as a screener for possible gifted identification. Students transferring into Stafford Schools after 2nd grade will be assessed in 6th grade or by referral.

Devereux Student Strengths Assessment (DESSA)

[DESSA assessments](#) provide educators with measurable and actionable data on students' social, emotional, and behavioral health. It provides a common lens and language for crafting a tiered academic and behavioral program that involves educators, parents, and students. All secondary schools will administer this assessment in the fall and spring.

PSAT/NMSQT

The [PSAT/NMSQT assessments](#) are administered to monitor student achievement compared to their peers nationally. It is also commonly used to monitor student growth and to identify students with the potential to take more rigorous coursework in high school. This assessment is administered to all students in grades 9-11. In addition, for 11th grade students, it serves as the National Merit Scholarship Qualifying Test.

English for Speakers of Other Languages Services

Stafford Schools' English for Speakers of Other Languages (ESOL) program ensures that English Learners (ELs) can participate meaningfully and equally in educational programs and services. Stafford's approach is based on Virginia's Language Instruction Educational Program (LIEP) models, which guarantee that ELs receive support tailored to their specific needs. ESOL teachers collaborate with classroom teachers to provide instruction that promotes success in core content areas, including language arts, math, science, and social studies. These services build upon the unique cultural and linguistic strengths students bring to our learning community while developing their English proficiency in all four language domains: listening, speaking, reading, and writing.

Identification and Determination of Services for English Learners

To facilitate identifying ELs and determining appropriate services, Stafford Schools follows a specific process. During the registration process, if a language other than English is indicated on the Home Language Survey, an appointment is scheduled to administer the WIDA Screener. This assessment measures the student's proficiency in the four language domains: listening, speaking, reading, and writing.

Based on the screener results, a determination of services is made. The student's English Language Proficiency (ELP) level and the recommended services are then communicated to the student's school. The school provides written notification to the family, detailing the recommendations and the support their child will receive.

Elementary Services

Elementary school students receive ESOL services that promote success in core content areas—language arts, math, science, and social studies. The goal is to accelerate English language development and build the foundational knowledge necessary for success in all subjects. Services include:

- **English Language Development (ELD):** In this model, ESOL teachers pull small groups of students to provide targeted instruction aimed at developing English language skills.
- **Content Classes with Integrated ESOL Support:** In this model, ESOL teachers collaborate with general education teachers to provide language support directly within content-area classes, helping students access the curriculum while developing English proficiency.

Secondary Services

Middle School

Middle school students receive ESOL services through a variety of ELD courses and co-taught classes. The program goal is to focus on developing academic vocabulary and providing content background knowledge to prepare students for success in their middle school courses and beyond.

- **English Language Development Courses:** These courses are taught by ESOL teachers and are designed to develop full English proficiency. The instruction focuses on building reading, writing, speaking, and listening skills in the content courses of math, language arts, science, and social studies.
- **Content Classes with Integrated ESOL Support:** In this model, ESOL teachers collaborate with general education teachers in core content classes. Instruction is designed to be accessible and comprehensible to ELs at all proficiency levels, often using strategies like sheltered instruction or co-teaching.

High School

High school students receive ESOL services through various ELD courses and co-teaching classes. The goal is to focus on developing academic vocabulary and providing content background knowledge to prepare students for success in their high school courses and beyond.

- **Newcomer Course:** This is a short-term, intensive course for recently arrived ELs with early levels of English proficiency. The goal is to help these students acquire basic English skills and foundational academic concepts, easing their transition into the American school system.
- **English Language Development Courses:** These courses are taught by ESOL teachers and are designed

to develop full English proficiency. The instruction focuses on building reading, writing, speaking, and listening skills in the content courses of math, language arts, science, and social studies.

- **Content Classes with Integrated ESOL Support:** In this model, ESOL teachers collaborate with general education teachers in core content classes. Instruction is designed to be accessible and comprehensible to ELs at all proficiency levels, often using strategies like sheltered instruction or co-teaching.

Gifted Education Services

Gifted education services provide a cohesive continuum of appropriately challenging and differentiated educational experiences at the school, district, and community levels for identified students at all grade levels. Eligibility for the gifted program is determined by prescribed criteria established by the school division through [Stafford's Local Plan for the Education of the Gifted](#) and approved by the Commonwealth of Virginia.

Gifted resource teachers (GRTs) support and provide appropriately challenging academic learning opportunities through a variety of services including working directly with students, families, and classroom teachers. GRTs collaborate, co-teach, and coach with classroom teachers to develop and provide appropriate learning experiences and environments to meet the academic, artistic, creative, social, and/or emotional needs of advanced students and students who have been identified as gifted.

At the elementary level, gifted students are clustered with other like-minded peers and receive pull-out services to extend and accelerate academically as well as develop social and emotional skills; differentiated instruction is embedded in the curriculum as students practice and develop skills including critical thinking, creativity, and problem-solving. The goal is to enrich and accelerate instruction to provide academic and social-emotional growth opportunities for all students.

At the secondary level, gifted resource teachers extend and enrich the curriculum for gifted students and conduct progress monitoring for students' academic, social, and emotional needs. Gifted resource teachers collaborate with classroom teachers to provide appropriately challenging academic learning through a variety of services, including working directly with teachers, students, and families. Middle school students are clustered, as possible, with intellectual, like-minded peers to facilitate and support differentiation in the classroom and independent study opportunities are available. High school students may choose to take a number of challenging college courses within specified programs of study, or may choose to take challenging courses of interest.

Special Education Services

Special education services are available to identified students from ages 2-21 inclusive. Eligibility for special education is determined by criteria that is established by state and federal regulations under the Individuals with Disabilities Act, also known as IDEA.

All students, including students with disabilities, can access the courses outlined in this program of studies. Additionally, there are specialized classes and supports that are only available to students with disabilities as outlined by their Individualized Education Plan (IEP).

If you suspect your child has a disability, please contact the building principal or designee to discuss next steps. Additionally, if school staff suspect a disability, the school will contact the parent to discuss next steps.

Transfer Students

Principals have the authority to place students in the appropriate grade level and these would generally follow the prior year's placement by an accredited private school and have the authority to award credit for courses that align with Stafford Schools offerings through the Program of Studies. For courses that do not readily align, it is

recommended that the course description and student objectives are requested and reviewed prior to awarding credit.

Stafford Schools recognize that different school divisions, states, and countries utilize various grading scales and courses. As students transfer into the division, official transcripts are requested from the sending school. Grades are transcribed for incoming students based on the letter grade earned at the previous school. This letter grade is used to calculate the grade point average based on the Stafford Schools quality point scale. Transfer students will receive weighted credit for only those Advanced Placement, Dual Enrollment, and/or International Baccalaureate courses previously taken for which an equivalent weighted course is offered in our schools.

Military Student Transfer Students

The [Interstate Compact on Educational Opportunity for Military Children](#) ensures a uniform treatment of military children regarding educational opportunities as they transfer between school districts and states. Therefore, Stafford Schools will provide comparable services to students based on their educational needs and may perform subsequent evaluations to ensure appropriate placement.

Grading and Reporting

Elementary Grading and Reporting

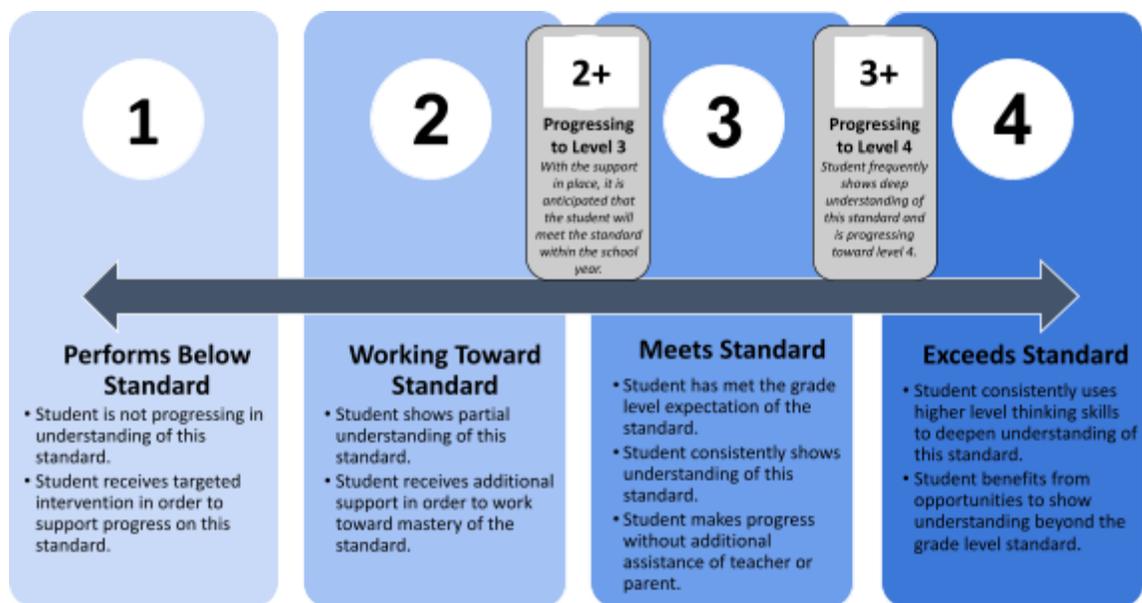
Stafford Schools provides feedback on academic growth and achievement to elementary students and parents/guardians through a standards-based grading system. A standards-based system measures and reports a student's progress according to how the student is performing on expected standards. It provides more detailed information about what a student is learning and can demonstrate in each content area. The following measures are used to report student progress:

Grades K-5 (Academic Subjects)

- 4 = Exceeding standard
- 3+ = Progressing to level 4
- 3 = Meeting standard
- 2+ = Progressing to level 3
- 2 = Working toward standard
- 1 = Performing below standard

Grades K-5 (Life Readiness Skills)

- 3 = Meeting expectations
- 2 = Working toward expectations
- 1 = Performing below expectations



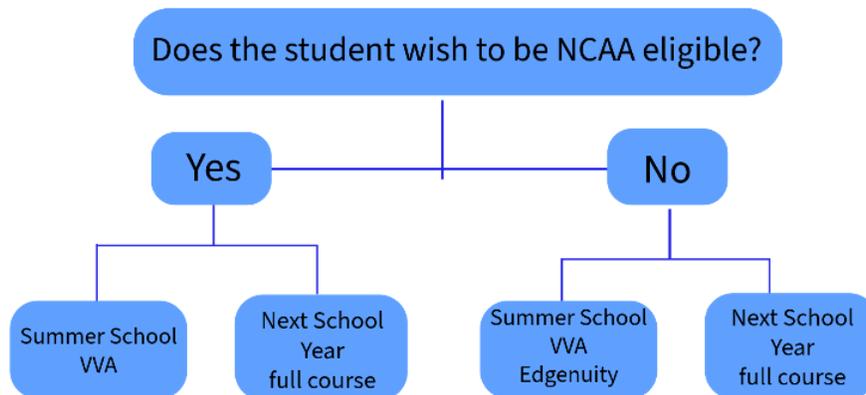
Secondary Grading Scale and Grade Point Average Calculation

Stafford Schools Secondary 10-Point Grading Scale			
Grade	Range	Quality Points	Weighted Quality Points
A+	98-100	4.5	5.5
A	93-97	4.25	5.25
A-	90-92	4.0	5.0
B+	87-89	3.5	4.5
B	83-86	3.25	4.25
B-	80-82	3.0	4.0
C+	77-79	2.5	3.5
C	73-76	2.25	3.25
C-	70-72	2.0	3.0
D+	67-69	1.5	2.5
D	63-66	1.25	2.25
D-	60-62	1.0	2.0
F	0-59	0	0

Grade Point Average (GPA) is the average of the quality points earned by a student as they complete high school credit courses. For example, a student who earned 2 As, 3 Bs, 2 Cs, and a D+ in eight, one-credit classes would earn 24.25 quality points. The sum of the quality points is divided by the total number of credits attempted (eight in this case); therefore earning a 3.03125 GPA ($24.25/8 = 3.03125$).

Course Retakes

Students may choose to retake a high school credit-bearing course either due to failure or for grade improvement. Students retaking a course with a passing grade, but wish to improve that grade, may only do so with principal approval. Original and replacement courses with associated grades will be listed on the student's transcript*. The highest of either the original or repeated course will be calculated in the GPA. A "CR" tag on the student transcript indicates grade replacement through a credit recovery course. The below chart has been created to process through the options for students:



Notes:

- Previously passed courses may be repeated only once.
- Repeated courses must have the same weighting as the original course for grade replacement.
- *High school credit-bearing courses taken in the middle school may be expunged from the student's transcript by parent request per Stafford policy 3610-P.

Weighted Grades

Students electing to take Advanced Placement (AP), Dual Enrollment (DE), or International Baccalaureate (IB) courses will receive weighted credit for successfully completing these courses. Weighted grades will be designated by a (#) and do not apply to honors-level courses.

Please note the following:

- In AP, DE, or IB courses, students earn an additional Quality Point in their GPA (i.e. a grade “A+” is awarded 5.5 grade quality points).
- All other courses, including honors-level courses, are awarded 4.5 grade quality points for an “A+.”
- Students who wish to concurrently enroll in a college or university and receive high school credit for the course will receive a weighted grade for only those courses which are equivalent to those weighted courses listed in this catalog. Prior approval by the principal is required for any concurrent enrollment in a college or university. Certain student eligibility requirements apply.

NOTE: Students transferring into Stafford Schools will receive weighted grades for only those AP, DE, IB, and Project Lead the Way courses previously taken for which an equivalent weighted course is offered in our schools. All students will have their grade point averages computed using the same weighted grade criteria.

Student Absenteeism and Make-up Work

Regular school attendance is expected for all students. *Code of Virginia* § 22.1-254 requires that all children who have reached their fifth birthday on or before September 30 and who have not yet reached their eighteenth birthday must attend school. This requirement does not apply to any child who has obtained a high school diploma, its equivalent, a certificate of completion, or who is exempted pursuant to the provisions of the law.

Students are responsible for communicating with the teacher on the day they return to class to schedule the make-up of missed work. Once the summative assessment has been administered for that marking period/term, make-up work for a grade may be accepted at the principal's discretion. High school and middle school students taking high school level courses are expected to communicate with their teacher upon their return to school. Upon their return to school, students are expected to turn in any work that was due on the day(s) of the absence. Teachers have discretion in determining classroom make-up work deadlines prior to the summative assessment and may assign penalties for work that is not completed or turned in past the assigned due date per the principal's discretion.

Full-time Virtual Instruction for Grades 6-12

Students in grades 6-12 may request full-time virtual instruction at no cost through [Virtual Virginia](#), a program of the Virginia Department of Education (VDOE). Students must receive school approval based on division criteria developed from the VDOE Guidelines for Successful Full-time Virtual Students. Homeschool students that wish to take advantage of the full-time virtual learning option through Virtual Virginia will be required to enroll in their zoned Stafford school. To be considered “full-time,” a student must be enrolled in at least five one-credit virtual courses or the equivalent. Homeschooled students also may enroll in up to two virtual courses at no cost.

Students approved for virtual learning may enroll in [Virtual Virginia courses](#) based on a plan to meet state graduation requirements.

Full-time students in Virtual Virginia courses will receive instruction through a combination of synchronous and asynchronous learning. Students will be required to attend live sessions five times per week and complete lessons and assignments independently. Full-time virtual students will be provided a computer and necessary instructional materials.

All full-time virtual instruction students and a parent/guardian will be required to sign a contract agreeing to abide by expectations intended to promote academic success to remain in the program.

ELEMENTARY SCHOOL PROGRAM



2026-2027

PROGRAM OF STUDIES

Elementary School Program

The purpose of elementary school is to provide a foundational education that equips young children with fundamental academic knowledge and essential life skills. It aims to foster intellectual, social, and emotional development, preparing students for future learning and helping them become responsible, well-rounded individuals who can contribute positively to their communities and society at large.

Stafford Schools' [Framework for Student Learning](#) and the [Stafford Profile of a Graduate](#) guides our dedicated educators to deliver high quality curriculum through evidence-based instruction. Our classrooms are designed to engage students in critical thinking, communication, collaboration, and creativity in an environment that is supportive of their unique learning and social-emotional needs. We assess student progress using a multi-faceted approach to determine those needs, and provide intervention, practice, and enrichment.

Pre-Kindergarten

The Early Childhood program builds skills through integrated learning experiences centered around themes, with much opportunity for student choice, engagement with concrete materials and exploration.

Literacy

The Virginia Early Learning and Development Standards-Birth to Five and the Head Start Early Learning Outcomes Framework guide the literacy goals of our early childhood program. Through play, conversation, and intentional learning activities, students develop listening and communication skills that set the foundation for success in kindergarten and beyond. Students learn to identify letters and their corresponding sounds, segment and blend sounds in words, rhyme, and count syllables in words. Students learn that print is meaningful, and they expand their vocabulary and background knowledge through thematic read alouds and experiential learning. Starting with scribbling and drawing, students learn to utilize writing tools and to coordinate their eyes, hands, and brains to create meaningful print that communicates a message.

Mathematics

The Virginia Early Learning and Development Standards-Birth to Five and the Head Start Early Learning Outcomes Framework guide the mathematics goals of our early childhood program. The skills are also rooted in combined National Council of Teachers of Mathematics (NCTM) and National Association for the Education of Young Children (NAEYC) position statements guiding foundational mathematical learning. Students develop skills in beginning number sense and concept of number. This includes rote counting to at least 20, numeral recognition of 0-10, and counting physical objects. Students develop an understanding of number relationships and solving problems using addition and subtraction of small quantities. They develop geometric thinking and spatial reasoning, including shape identification. Students learn to sort, classify, recognize and create simple repeating patterns. Students describe, compare, and measure lengths, weights, area and volume with objects in their environment.

Science

Students learn through their senses, and are taught about the natural and physical world, developing skills in describing and recording, testing questions and ideas with simple experimentation.

History and Social Sciences

Students learn about themselves, other people, different families, communities and cultures. They learn about differences and similarities and how people interact, including relationships and connections.

Approaches to Learning

Students develop skills in being curious learners, taking initiative, using their creativity and imagination. They learn to focus and pay attention, build their working memory, develop flexibility in thinking and adapting to changes, controlling their bodies and inhibiting responses, managing their behaviors and actions, persisting and problem solving, and develop critical thinking skills through why and how questions, all of which build their executive function and cognitive self regulation skills.

Social Emotional Learning

Students learn a positive concept and awareness of self. They learn self-confidence through classroom responsibilities and successes, becoming more independent and autonomous. Students develop relationships with adults and peers. They learn to recognize, see and name emotions in themselves and others, to express their emotions appropriately and to communicate their feelings, needs and wants. Students learn strategies to regulate their emotions and practice showing care and concern for others as they build empathy skills. Students learn to interact with others in play and work, with strategies for sharing toys, tools and cooperatively achieving goals. Students learn strategies for solving social interaction problems.

Physical Development, Health, and Self Care

Students learn to explore their environment physically, developing large muscle strength and control. They learn to take care of their daily health needs, developing healthy habits in care of their bodies, eating, resting and sleeping. They learn safe behaviors.

Music

Early childhood integrates instrument play, movement, and singing in daily instruction. This type of music instruction is developmentally appropriate while encouraging play, exploration, and creativity. Music helps facilitate language, supports transitions, anchors daily routines.

Visual Arts

Visual Arts instruction is integrated into daily classroom instruction and supports learning in literacy, math, social studies, and science. A variety of mediums are explored allowing students to be creative and expressive. Students are given opportunities to share their work with their classmates which build their communication skills.

Kindergarten

Literacy

Students in kindergarten develop skills in communication, reading, and writing that lay the foundation for success in future years. Explicit, systematic instruction in phonological awareness and phonics provides students with practice in distinguishing the sounds that make words and builds the association between sounds and the letters that represent them. As students learn consonant and short vowel sounds with the corresponding letter spelling, they practice blending sounds together smoothly to read words. Students also develop writing skills, learning to print letters of the alphabet and segment sounds in words to spell them. Students expand listening and speaking vocabularies through read-alouds of fiction and nonfiction texts centered around themes that build student knowledge of the world around them.

Mathematics

The kindergarten standards place emphasis on developing the concept of number by counting; combining, sorting, and comparing sets of objects; recognizing, describing, and creating simple repeating patterns; and recognizing shapes and sizes of figures and objects. Students will investigate measurement through direct comparisons, explore the concept of fractions with sharing, collect data, and create graphs. Students will also begin to develop skills in communicating mathematical ideas, representing their understanding with objects and pictures, and thinking critically about given situations. These processes are critical to future mathematical development.

Science - *Using My Senses to Understand My World*

In science, kindergarten students use their senses to make observations of the characteristics and interactions of objects in their world. Students study the characteristics of water and the basic needs of living things. They also study the relationship between the sun and Earth through shadows and weather. They determine how their actions can change the motion of objects and learn how they can make a difference in their world. Throughout the elementary years, students will develop scientific skills, supported by mathematics and computational thinking, as they learn science content. In kindergarten, students will develop skills in posing simple questions, conducting simple investigations, observing, classifying, and communicating information about the natural world.

Social Studies - *Focus on the Community*

The standards for kindergarten students focus on the local community and include an introduction to basic history and social science skills. During the course of their first year in school, students learn about their community, including basic concepts related to history, patriotism, national symbols, good citizenship, geographic location, economics, and the importance of following rules and respecting the rights and property of other people.

Music

Kindergarten serves as the foundation for musical understanding and provides a pathway to future music instruction. Students will learn musical knowledge, skills, and understanding through singing, playing instruments, listening, and moving. Students identify people who create music and examine how music is a part of personal and community events. Creative ideas will be shared while students recognize and express personal responses evoked by musical experiences.

Visual Arts

Kindergarten art serves as a foundation for further visual arts instruction. Emphasis is placed on cognitive, affective, sensory, and motor development and the appropriate manipulation of materials. Students will begin to recognize basic art concepts and use art as a means for creative expression. Students will become aware of art from other time periods, places, and people. Students come to understand that works of art are developed using a creative process.

Physical Education

In the elementary years, students develop maturity and adaptability in the use of fundamental motor skills and patterns that are then further refined and combined during the middle school years.

Elementary students establish basic musculoskeletal vocabulary and use simple concepts as they develop their movements. They become aware of health-related fitness components (aerobic capacity, muscular strength and endurance, flexibility, and body composition), engage in a variety of physical activities, and develop a basic fitness plan. It is expected that elementary students recognize and use rules and procedures, focus on safety, respect similarities and dissimilarities, and cooperate with others. They will also understand the basic nutrition and fitness concepts of energy balance.

Health Education

The intent of Health Education for elementary school students is to assist students to become health literate, self directed learners with the ability to identify accurate health products and services, and learn how to create and maintain a safe and healthy environment for themselves and their family members.

This is accomplished by demonstrating

- the knowledge and skills to make healthy decisions that reduce health risks and enhance the health of oneself and others;
- the ability to access, evaluate, and use health information, products, and services that influence health and wellness in a positive manner; and
- the use of appropriate health practices and behaviors to promote a safe and healthy community when alone, with family, at school, and in other group settings.

Library

The Elementary Library Media Center (LMC) is a place where all students have the opportunity to expand their horizons both academically and individually. The LMC in our elementary schools provide students with access to rich and robust information through check-out, school-specific curriculum support, and lessons centered around developing literacy and critical research skills. Our students are able to delve into topics that interest them with printed media, digital resources, STEM education, and other immersive applications that help provide students with core 21st Century skills. Both students and faculty alike utilize technological resources which positively impacts instruction inside the Library and within each classroom. In Stafford Schools, we focus our mission on the National School Library Standards which prepare all students to be successful in the next phase of their life, college, careers, and within their communities.

Science, Technology, Engineering, Arts, and Mathematics (STEAM)*

Students will be provided with learning experiences that integrate and apply science, technology, engineering, arts, and mathematics content. Students will investigate and solve real-world problems while engaging in meaningful, purposeful, and relevant hands-on inquiry-based, problem-based and/or project-based learning experiences. Applied computer science concepts and skills will be introduced and developed. *Where staffing and capacity allow, STEAM may be offered as an additional resource class.

First Grade

Literacy

Students in first grade continue to develop foundational skills in communication, reading, and writing that are essential for success in future years. Explicit, systematic instruction in phonological awareness and phonics provides students with practice in distinguishing the sounds that make words and builds the association between sounds and the spellings that represent them. Students learn all 44 sounds in the English language along with the ways to represent and spell those sounds. Students practice blending individual spelling sounds together smoothly to read words correctly and automatically. Students also develop writing skills, learning to segment sounds in words and represent them with the corresponding spellings. Students write in a variety of forms using complete sentences to communicate ideas. Students also expand listening and speaking vocabularies through read alouds of fiction and nonfiction texts centered around themes that build student knowledge across content areas.

Mathematics

In first grade, students use critical thinking and connections to build a deeper understanding of concepts from Kindergarten. The first-grade standards place emphasis on counting, comparing, and ordering sets of up to 110 objects; recognizing and describing simple repeating and growing patterns; and tracing, describing, and sorting plane figures. Students' understanding of numbers is expanded through recognizing and describing part-whole relationships for numbers up to 10, solving story and picture problems using addition and subtraction within 20; using nonstandard units to measure; and organizing and interpreting data. Fractional concepts will be expanded through sharing scenarios involving halves and fourths. Students will build their mathematical vocabulary and practice communicating with peers as well as representing their mathematical ideas with objects and pictures.

Science - *How I Interact with My World*

In first-grade science, students become aware of factors that affect their daily lives. Students continue to learn about the basic needs of all living things and that living things respond to factors in their environment, including weather and the change of season. They continue the examination of matter by observing physical properties and how materials interact with light. Throughout the elementary years, students will develop scientific skills, supported by mathematics and computational thinking, as they learn science content. In first grade, students will develop skills in posing simple questions, conducting simple investigations, observing, classifying, and communicating information about the natural world. Students are introduced to the engineering design process.

Social Studies - *Focus on the Commonwealth of Virginia*

The standards for first-grade students include an introduction to the lives of leaders in the history of Virginia and their contributions to the Commonwealth. Students continue to develop basic map skills. They study the economic concepts of goods and services, consumers and producers, and making economic choices. Students learn to apply the traits of a good citizen and recognize that communities in Virginia have local governments. They learn that communities include people who have diverse ethnic origins, customs, and traditions, who make contributions to their communities, and who are united as Americans by common principles.

Music

Instruction in first grade emphasizes the language and production of music and focuses on the continued development of skills in singing, playing instruments, listening, moving, and responding to music. Emphasis is placed on performing simple rhythms and developing aural skills related to pitch, musical form, and instrument identification. Students investigate how people participate in music in everyday life. Students identify collaboration and communication skills in music and describe personal ideas and emotions evoked by music. Students continue to explore the concept of a creative process to develop music ideas.

Visual Arts

Fine motor skills and eye-hand coordination development continue in first grade art. Students will begin to perceive spatial relationships, identify primary colors, and distinguish line variation. The standards continue to emphasize ways that art communicates ideas, opinions, and emotions. Art production focuses on increased communication, creative

thinking, and the depiction of stories, poems, ideas, and themes. Students explore why people have different responses to works of art.

Physical Education

In the elementary years, students develop maturity and adaptability in the use of fundamental motor skills and patterns that are then further refined and combined during the middle school years.

Elementary students establish basic musculoskeletal vocabulary and use simple concepts as they develop their movements. They become aware of health-related fitness components (aerobic capacity, muscular strength and endurance, flexibility, and body composition), engage in a variety of physical activities, and develop a basic fitness plan. It is expected that elementary students recognize and use rules and procedures, focus on safety, respect similarities and dissimilarities, and cooperate with others. They will also understand the basic nutrition and fitness concepts of energy balance.

Health Education

The intent of Health Education for elementary school students is to assist students to become health literate, self directed learners with the ability to identify accurate health products and services, and learn how to create and maintain a safe and healthy environment for themselves and their family members.

This is accomplished by demonstrating

- the knowledge and skills to make healthy decisions that reduce health risks and enhance the health of oneself and others;
- the ability to access, evaluate, and use health information, products, and services that influence health and wellness in a positive manner; and
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Science, Technology, Engineering, Arts, and Mathematics (STEAM)*

Students will be provided with learning experiences that integrate and apply science, technology, engineering, arts, and mathematics content. Students will investigate and solve real-world problems while engaging in meaningful, purposeful, and relevant hands-on inquiry-based, problem-based and/or project-based learning experiences. Applied computer science concepts and skills will be introduced and developed. *Where staffing and capacity allow, STEAM may be offered as an additional resource class.

Second Grade

Literacy

Students in second grade continue to develop essential skills in communication, reading, and writing. Explicit, systematic instruction in phonological awareness and phonics provides students with ongoing practice with the 44 sounds in the English language along with the ways to represent and spell those sounds. Students begin to master more complex spellings for consonants and long vowel sounds, blending sounds together in both single syllable and multisyllabic words to read fluently. Students also deepen writing skills, segmenting sounds in more complex words and representing them with corresponding spellings. Students expand writing to express thoughts with more elaboration and detail. Students build knowledge, develop vocabulary, and demonstrate comprehension of fiction and nonfiction texts centered around themes from different content areas.

Mathematics

The second-grade standards extend the study of number and spatial sense to include three-digit whole numbers and solid geometric figures. Students will continue to learn, use, and gain proficiency in addition and subtraction within 20. Students will begin to use U.S. Customary units to measure length and weight; predict and use simple probability; and create and interpret pictographs and bar graphs. Students will work with a variety of patterns and will develop an understanding of equality. Communication and representation of mathematical thinking becomes increasingly important in second grade as the content develops in complexity. Students will make sense of these concepts by applying critical thinking and making connections among mathematical ideas.

Science - *Change Occurs All Around Us*

Science in second grade builds on the previous understandings of forces, water, weather, and plants and animals, as students explore these concepts through the lens of change. They examine how water changes phase, how visible and invisible forces change motion, how plants and animals change through their life cycles, and how weather changes the Earth. Students also examine how change occurs over a short or long period of time. Throughout the elementary years, students will develop scientific skills, supported by mathematics and computational thinking, as they learn science content. In second grade, students will develop skills in posing simple questions, planning and conducting simple investigations, observing, classifying, and communicating information about the natural world. Students engage in more aspects of the engineering design process.

Social Studies - *Focus on the United States of America*

The standards for second-grade students include an introduction to the lives of Americans and their contributions to the United States as well as the heritage of the American Indians, past and present. Students continue developing map skills and demonstrate an understanding of basic economic concepts. The students will identify selected American individuals who have worked to improve the lives of American citizens. The students will recognize that the United States is a land of people who have diverse ethnic origins, customs, and traditions, who make contributions to their communities, and who are united as Americans by common principles.

Music

Students continue developing musical skills and concepts in singing, playing instruments, listening, performing, responding with expression, creating/composing, and moving with a focus on fine motor skills. Emphasis is placed on ensemble playing, notating pitches and rhythms, and identifying instruments. Students investigate how people experience music in everyday life and explore how music evokes personal ideas and emotions.

Visual Arts

Continued development of motor skills and observational abilities occurs in second grade art as students begin to illustrate those observations and realize narrative qualities in art. Students build an expanding vocabulary while describing their work and the work of others. Students focus on applying a creative process for artmaking and expanding their creative thinking, collaboration, and communication skills. Finally, students express ideas using an increasing variety of art materials, skills, techniques, and processes.

Physical Education

In the elementary years, students develop maturity and adaptability in the use of fundamental motor skills and patterns that are then further refined and combined during the middle school years.

Elementary students establish basic musculoskeletal vocabulary and use simple concepts as they develop their movements. They become aware of health-related fitness components (aerobic capacity, muscular strength and endurance, flexibility, and body composition), engage in a variety of physical activities, and develop a basic fitness plan. It is expected that elementary students recognize and use rules and procedures, focus on safety, respect similarities and dissimilarities, and cooperate with others. They will also understand the basic nutrition and fitness concepts of energy balance.

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Third Grade

Literacy

Students in third grade continue to develop essential skills in communication, reading, and writing. Explicit, systematic instruction in phonics provides students with ongoing practice to master complex spellings for consonants and vowel sounds, blending sounds together in multisyllabic words to read fluently. Instruction begins to shift from phonics to word analysis, providing students with practice using prefixes, suffixes, and root words to identify and read meaningful parts of words. Students use the writing process to plan, draft, revise, and edit writing in a variety of forms, expressing connected and developed ideas in a paragraph. Students build knowledge, develop vocabulary, and deepen comprehension through close reading of complex text centered around content-integrated units of study.

Mathematics

The third-grade standards place emphasis on developing an understanding of, and solving problems that involve multiplication and division through 10×10 (fluency and automatic recall is not expected until the end of fourth grade). Students will apply knowledge of place value and the properties of addition and multiplication as strategies for solving problems. Concrete models and pictorial representations will be used to introduce addition and subtraction with fractions and the concept of probability as the measurement of chance. Students will use standard units (U.S. Customary and metric) to measure temperature, length, and liquid volume. Properties of shapes, points, line segments, rays, angles, vertices, and lines will be explored and students will identify polygons with 10 or fewer sides, combine and subdivide polygons, and name the resulting polygon(s). Students will continue to develop more sophisticated ways to communicate and represent their mathematical thinking. Problem solving, reasoning, exploration, and connections are essential components of instruction so that students develop a deep understanding of concepts.

Science - *Interactions in Our World*

The focus of science in third grade is interactions in our world. Students continue their study of forces and matter by learning about simple machines and by examining the interactions of materials in water. They also look at how plants and animals, including humans, are constantly interacting with both the living and nonliving aspects of the environment. This includes how adaptations satisfy the life needs of plants and animals and the importance of water, soil, and the sun in the survival of plants and animals. Throughout the elementary years, students will develop scientific skills, supported by mathematics and computational thinking, as they learn science content. In third grade, students will develop more sophisticated skills in posing questions and predicting outcomes, planning and conducting simple investigations, collecting and analyzing data, constructing explanations, and communicating information about the natural world. Students begin to use the engineering design process to apply their scientific knowledge to solve problems.

Social Studies - *Focus on Ancient World Cultures*

The standards for third-grade students include an introduction to the heritage and contributions of the peoples of ancient China, Egypt, Greece, Rome, and the West African empire of Mali. Students continue developing map skills and demonstrate an understanding of basic economic and civics concepts. Students will examine the social, cultural, and political characteristics of major ancient world cultures. Students will recognize that many aspects of ancient cultures served as the foundation for modern governments, customs, traditions, and perspectives.

Music

Building mastery in the areas of music literacy, including singing, playing instruments, listening, moving, and creating/composing music is emphasized in third grade. In particular, students develop skills for appropriate singing habits and instrumental ensemble performance. Musical understanding through the study of rhythm, musical form, and melodic notation. Students explore music from different periods of music history and reflect on ways that music has value to people and communities.

Visual Arts

Through observing and recording details, students' work will become more complex. The curriculum emphasizes learning through a creative process that involves brainstorming, problem solving, planning, and self-assessment.

Students explore and identify historical and cultural influences of artwork while also investigating the integral role of art and architecture within various cultures. Through imaginative, expressive, and collaborative strategies, students continue to create personal works of art.

Physical Education

In the elementary years, students develop maturity and adaptability in the use of fundamental motor skills and patterns that are then further refined and combined during the middle school years.

Elementary students establish basic musculoskeletal vocabulary and use simple concepts as they develop their movements. They become aware of health-related fitness components (aerobic capacity, muscular strength and endurance, flexibility, and body composition), engage in a variety of physical activities, and develop a basic fitness plan. It is expected that elementary students recognize and use rules and procedures, focus on safety, respect similarities and dissimilarities, and cooperate with others. They will also understand the basic nutrition and fitness concepts of energy balance.

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Fourth Grade

Literacy

Students in fourth grade continue to deepen skills in communication, reading, and writing. Students practice word recognition at higher levels, reading multisyllabic words fluently using knowledge of syllable types and word analysis skills (prefixes, suffixes, and root words). Students use the writing process to plan, draft, revise, and edit writing in a variety of forms, communicating well-developed ideas in a paragraph. Students build knowledge, develop vocabulary, and deepen comprehension through close reading of increasingly complex text centered around content-integrated units of study.

Mathematics

The fourth-grade standards place emphasis on multiplication and division with whole numbers and solving problems involving addition and subtraction of fractions and decimals. Students will develop fluency with multiplication through 12×12 and the corresponding division facts as they become proficient in multiplying larger numbers. Students will apply knowledge of place value and the properties of addition and multiplication as strategies for solving problems. Students also will refine their estimation skills for computations and measurements. Students will identify and describe representations of points, lines, line segments, rays, and angles, including endpoints and vertices. Students will describe and compare characteristics of plane and solid figures. Concrete models and pictorial representations will be used to solve problems involving perimeter and area, patterns, probability, and equivalence of fractions and decimals. Students will continue to develop more sophisticated ways to communicate and represent their mathematical thinking. Problem solving, reasoning, exploration, and connections are essential components of instruction so that students develop a deep understanding of concepts.

Science - *Our Place in the Solar System*

Our solar system is a grand place, and in fourth grade science, students learn where we fit in this solar system. Starting with the solar system, and then moving to the planet Earth, the Commonwealth of Virginia, and finally their specific ecosystems, students examine how features of plants and animals support life. They also explore how living things interact with both living and nonliving components in their ecosystems. Throughout the elementary years, students will develop scientific skills, supported by mathematics and computational thinking, as they learn science content. In fourth grade, students will continue to develop skills in posing questions and predicting outcomes, planning and conducting simple investigations, collecting and analyzing data, constructing explanations, and communicating information about the natural world. Students continue to use the engineering design process to apply their scientific knowledge to solve problems.

Social Studies - *Virginia Studies*

The standards for Virginia Studies allow students to develop a greater understanding of Virginia's rich history, from the cultures of its native peoples and the founding of Jamestown to the present. Geographic, economic, and civic concepts are presented within this historical context. Students will develop the skills needed to analyze, interpret, and demonstrate knowledge of important events and ideas in our history and will understand the contributions made by people of diverse cultural and ethnic backgrounds. Students will use geographic tools to examine the influence of physical and cultural geography on Virginia history. Ideas that form the foundation for political institutions in Virginia and the United States also will be included as part of the story of Virginia.

Music

Fourth grade learning emphasizes a deeper understanding of musical concepts during which students expand on the use of a creative process as they reflect on the process, create music, and revise work based on feedback. Advanced techniques in singing and instrumental techniques, as well as an expansion of understanding rhythmic and harmonic techniques, and using a system for improved melodic and rhythmic sight-reading is also explored. Students use an expanding music vocabulary to explain personal preferences for musical works and performances.

Visual Arts

The elements of art (e.g. color, form, line, shape, space, texture, value) and principles of design (e.g. balance, contrast, emphasis, movement, pattern, proportion, rhythm, unity, variety) as tools for visual communication, creative expression, and production continue to be emphasized in fourth grade art. Further application of student skills include

an awareness of proper portion and illusion of depth on a two-dimensional surface. Students examine influences of art of the past on contemporary culture. Students will explore a continued range of art tools and subject matter as they engage in the creative process.

Physical Education

In the elementary years, students develop maturity and adaptability in the use of fundamental motor skills and patterns that are then further refined and combined during the middle school years.

Elementary students establish basic musculoskeletal vocabulary and use simple concepts as they develop their movements. They become aware of health-related fitness components (aerobic capacity, muscular strength and endurance, flexibility, and body composition), engage in a variety of physical activities, and develop a basic fitness plan. It is expected that elementary students recognize and use rules and procedures, focus on safety, respect similarities and dissimilarities, and cooperate with others. They will also understand the basic nutrition and fitness concepts of energy balance.

Health Education

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Fifth Grade

Literacy

Students in fifth grade continue to deepen skills in communication, reading, and writing. Students practice word recognition at higher levels, reading multisyllabic words fluently using knowledge of syllable types and word analysis skills (prefixes, suffixes, and root words). Students use the writing process to plan, draft, revise, and edit writing in a variety of forms, communicating well-developed ideas in multiple paragraphs. Students build knowledge, develop vocabulary, and deepen comprehension through close reading of increasingly complex text centered around content-integrated units of study.

Mathematics

The fifth-grade standards place emphasis on number sense with whole numbers, fractions, and decimals. This focus includes concepts of prime and composite numbers, identifying even and odd numbers, and solving problems using order of operations for positive whole numbers. Students will develop proficiency in the use of fractions and decimals to solve practical problems. Students will collect, display, and analyze data in a variety of ways and solve probability problems, using a sample space, a tree diagram, or the Fundamental Counting Principle. Students will also solve problems involving volume, area, and perimeter. Students will be introduced to expressions with a variable. Students will solve problems using strategies including place value and the properties of addition and multiplication. All of these skills assist in the development of the algebraic concepts needed for success in the middle grades. Students will continue to develop more sophisticated ways to communicate and represent their mathematical thinking. Problem solving, reasoning, exploration, and connections are essential components of instruction so that students develop a deep understanding of concepts.

Science - *Transforming Matter and Energy*

Grade five science takes a deeper dive into foundational concepts in physical science, and students begin to make connections between energy and matter. Students explore how energy is transformed, and learn about electricity, sound, and light. They also learn about the composition of matter, and explore how energy can change phases of matter. They apply an understanding of force, matter, and energy when they explore how the Earth's surface changes. Students continue to develop scientific skills and processes as they pose questions and predict outcomes, plan and conduct investigations, collect and analyze data, construct explanations, and communicate information about the natural world. Mathematics and computational thinking gain importance as students advance in their scientific thinking. Students continue to use the engineering design process to apply their scientific knowledge to solve problems.

Social Studies - *United States History to 1865*

Students will use skills for historical and geographical analysis to explore the early history of the United States and understand ideas and events that strengthened the union. The standards for this course relate to the history of the United States from pre-Columbian times until 1865. Students will continue to learn fundamental concepts in civics, economics, and geography as they study United States history in chronological sequence and learn about change and continuity in our history. They also will study documents and speeches that laid the foundation for American ideals and institutions and will examine the everyday life of people at different times in the country's history through the use of primary and secondary sources.

Music

Fifth Grade serves as a synthesis of all previously learned music knowledge and concepts. Students use increasingly complex rhythms and meters to continue to read, write, and compose music. They develop choral skills, including singing in two- and three part harmony. Students explore and perform a variety of music styles and develop personal criteria to be used for describing and analyzing musical performances.

Visual Arts

In fifth grade art, students use their knowledge and skills to solve problems creatively. Students gain fluency in understanding and applying elements of art and principles of design as they relate to artistic expression and

communication. Through artistic choices, students communicate personal ideas, images, and themes. They also improve application of critical thinking skills when interpreting, describing, analyzing, and judging art.

Physical Education

In the elementary years, students develop maturity and adaptability in the use of fundamental motor skills and patterns that are then further refined and combined during the middle school years.

Elementary students establish basic musculoskeletal vocabulary and use simple concepts as they develop their movements. They become aware of health-related fitness components (aerobic capacity, muscular strength and endurance, flexibility, and body composition), engage in a variety of physical activities, and develop a basic fitness plan. It is expected that elementary students recognize and use rules and procedures, focus on safety, respect similarities and dissimilarities, and cooperate with others. They will also understand the basic nutrition and fitness concepts of energy balance.

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MIDDLE SCHOOL SCHOOL PROGRAM



2026-2027

PROGRAM OF STUDIES

Middle School Program

The purpose of middle school is to develop social, emotional, organizational, and interpersonal skills in students. Students will learn challenging curricula and learn to recognize the value of learning. Students are encouraged to explore a variety of subjects and electives to build knowledge and confidence in their abilities.

Stafford Schools' [Framework for Student Learning](#) and the [Stafford Profile of a Graduate](#) guides our dedicated educators to deliver high-quality curriculum through evidence-based instruction. Our classrooms are designed to engage students in critical thinking, communication, collaboration, and creativity in an environment that is supportive of their unique learning and social-emotional needs. Student progress is assessed using a multi-faceted approach to determine those needs, and provide intervention, practice, and enrichment.

Course Information, Planning, and Registration

Counselors work with students and their parents/guardians to select courses in English, mathematics, science, history, and electives based on a student's learning needs, academic achievement, and interests. Each middle school has an elective program based on available staffing, facilities, and enrollment. At registration time, information will be provided regarding semester elective choices, required courses, and how many weeks each elective class will meet.

At registration time, students choose core courses and electives for the upcoming school year. The course descriptions in this catalog contain information about what is taught in the course, the grade level at which the course is offered, and any requirements needed to take the course. Students select electives from fine and performing arts, career and technical education, and world language.

Each middle school offers a comparable elective program, but course design may vary from school-to-school based on facilities and available staffing. Courses with low enrollment, or those requiring special facilities or teachers with special skills, may not be offered at all schools or during a given school year. In some courses, students must meet the necessary background requirements to enroll. Individual course requirements are included within course descriptions.

Expunging a High School Credit Earned During Middle School

The Standards of Accreditation for public schools in Virginia provide families with the option of requesting that grades be expunged (removed) from a student's transcript for any high school credit-bearing course taken in middle school. Parents/guardians may request, in writing, no more than thirty (30) days following the posting of final year-end grades, that a credit-bearing course taken before entering high school be removed from their child's academic high school transcript.

Students for whom a credit-bearing course is expunged must repeat the course in its entirety if the course is a requirement for graduation. If an end-of-course SOL test is applicable, the student will not be required to retake the end-of-course test if a passing score was achieved. Please consult your child's counselor for additional information.

This provision does not apply to courses taken while enrolled in grades 9-12.

Intervention and Enrichment

Middle schools will have dedicated time in the schedule for intervention and enrichment. The intervention support is designed to meet student's needs by accelerating student learning through addressing gaps in knowledge, understanding, and skills. Intervention and enrichment opportunities are designed to address the cognitive, physical, emotional and social development, and well-being of middle school students. In addition, these experiences promote the division's emphasis on student experiences that emphasize communication, collaboration, critical thinking, creativity, citizenship, and wellness to prepare students for success.

Middle School Offerings



English Courses

The English curriculum is designed to prepare students to read with comprehension, think critically, and communicate effectively. To provide for individual learning needs, differentiated instruction is offered at each grade level.

ENGLISH

121110 GRADE 6

122110 GRADE 7

123110 GRADE 8

A series of sequential courses designed to further develop students' foundational and critical literacy skills. With a continued emphasis on students reading complex fictional and informational text, instructional activities are based on the Virginia Standards of Learning and develop students' proficiency in multimedia literacies, written communication, reading, research, critical thinking, and analysis skills. Students will explore a variety of text genres, make comparisons between diverse texts, and apply learning to authentic contexts.

History and Social Science Courses

At the middle school level, Social Studies is intended to build on the skills and foundational understandings from elementary school. There is one state-required history SOL assessment in the 7th grade on Civics and Economics. US History II and World Geography will use performance assessments to measure student growth. After completing the middle school social studies sequence of courses, students will have the knowledge, skills, and abilities to achieve success in high school.

421000 GRADE 6 UNITED STATES HISTORY: 1865 TO THE PRESENT

This course continues the study of United States history from 5th grade and explores the historical development of people, places, and patterns of life from 1865 to the present day. Topics explored are US growth and economic development, US participation in WWI, WWII, and the Cold War, the expansion of civil and political rights, and major technological advancements. Through this study, the students learn fundamental concepts in civics, economics, and geography in the context of U.S. History.

422000 GRADE 7 CIVICS AND ECONOMICS

This course focuses on the structure and functions of government institutions at the national, state, and local levels. The student will foster patriotism, gain a respect for the law, and develop a sense of civic duty. The role of the citizen in the American political and economic systems will be explored. Students will take the Civics and Economics Standards of Learning test.

423000 GRADE 8 WORLD GEOGRAPHY

The focus of this course is the study of the world's peoples, places, and environments with an emphasis on world regions. The knowledge, skills, and objectives of the course are centered on the world's population and cultural characteristics, landforms and climates, migration and settlement patterns, and economic development. Particular emphasis is placed on students' applying geographic concepts and skills to their daily lives. Note: This course may be offered as a high school credit course.

Mathematics Courses

Sample Middle School Mathematics Course Sequences

6th Graders

6th Grade	7th Grade	8th Grade
Pre-Algebra 6	Pre-Algebra 7	Algebra I
Pre-Algebra 6	Pre-Algebra 7	Foundations of Algebra I
Pre-Algebra Intensified	Algebra I	Geometry

7th Graders

7th Grade	8th Grade	9th Grade
Pre-Algebra 7	Algebra I	Geometry
Pre-Algebra 7	Foundations of Algebra I	Algebra I
Algebra I	Geometry	Algebra II

8th Graders

8th Grade	9th Grade	10th Grade
Algebra I	Geometry	Algebra II
Foundations of Algebra I	Algebra I	Geometry
Geometry	Algebra II	Pre-calculus

Mathematics instruction in grades six through eight focuses on the development of number sense, with emphasis on rational and real numbers. Rational numbers play a critical role in the development of proportional reasoning and advanced mathematical thinking. Students develop an understanding of integers and rational numbers using concrete, pictorial, and abstract representations. Flexible thinking about rational number representations is encouraged when students solve problems. Proportional reasoning is the key to making connections to many middle school mathematics topics. The content of the middle school mathematics standards is intended to support the following five process goals for students: becoming mathematical problem solvers, communicating mathematically, reasoning mathematically, making mathematical connections, and using mathematical representations to model and interpret practical situations.

221100 PRE-ALGEBRA 6

This course includes all of the Grade 6 Mathematics Standards of Learning and select content from the Grade 7 Mathematics Standards. This course focuses on the development of problem-solving skills and the acquisition of mathematical vocabulary and symbols that promote higher levels of critical thinking and analysis. Students perform single-step and multistep problems involving operations with rational numbers. Students determine equivalency, compare, and order decimals, fractions, and percents. Students solve problems involving area and perimeter and begin to graph in a coordinate plane. In addition, students use the data cycle by applying it to circle graphs and histograms and develop concepts regarding measures of center. Students solve linear equations in one variable, and represent proportional relationships using two variables. In addition, students solve problems involving experimental

and theoretical probability, compare and contrast the properties of quadrilaterals, and evaluate algebraic expressions. Students enrolled in this course take the Grade 6 Mathematics Virginia Standards of Learning test.

221110 PRE-ALGEBRA 6 INTENSIFIED

Placement: *Selection for this course is based on a set of criteria including previous SOL assessments, the NWEA MAP Growth assessment, and teacher recommendation.*

This course includes all of the Grade 6, Grade 7, and Grade 8 Mathematics Standards of Learning. This course is designed for students who have a solid foundation in performing operations with rational numbers and can learn material at an accelerated pace. This course focuses on the development of problem-solving skills and the acquisition of mathematical vocabulary and symbols that promote higher levels of critical thinking and analysis. Students perform operations with rational numbers, recognize decimals, fractions, and percents as ratios, and gain a foundation in the understanding of and operations with integers. Students use the data cycle by applying it to circle graphs, histograms, scatterplots, and boxplots and develop concepts regarding measures of center. Additionally, students develop an understanding of proportional reasoning, representing linear equations in a variety of ways, solving multi-step linear equations and inequalities, and the concept of slope as a rate of change. Students also solve problems involving volume and surface area of more complex three-dimensional figures, apply transformations to geometric shapes, and verify and apply the Pythagorean Theorem. Students enrolled in this course take the Grade 8 Mathematics Virginia Standards of Learning assessment.

221200 PRE-ALGEBRA 7

This course includes the remaining Grade 7 Mathematics Standards not taught in Pre-Algebra 6 and all of the Grade 8 Mathematics Standards. This course focuses on the development of problem-solving skills and the acquisition of mathematical vocabulary and symbols that promote higher levels of critical thinking and analysis. Students continue to develop proficiency in operations with rational numbers and solving problems in context. Additionally, they represent and compare rational numbers using exponents, scientific notation, and square roots. Students develop an understanding of proportional reasoning, representing linear equations in a variety of ways, solving multi-step linear equations and inequalities, and the concept of slope as a rate of change. Students use the data cycle by applying it to histograms, scatterplots, and boxplots. In addition, students solve problems involving volume and surface area of more complex three-dimensional figures, apply transformations to geometric shapes, and verify and apply the Pythagorean Theorem. Students enrolled in this course take the Grade 8 Mathematics Virginia Standards of Learning assessment.

221300 Foundations of Algebra I

Grade 8

Placement: *Selection based on a set of criteria including assessment data and teacher recommendation*

This course reviews, extends, and builds upon skills learned in previous grades to provide students with a comprehensive foundation in mathematics to prepare for Algebra I. The curriculum emphasizes the development of key concepts such as rational numbers, proportions, linear relationships, and equations and inequalities. Students will also engage with concepts to prepare for Geometry, including the properties of angles, transformations, and measurement concepts such as volume and surface area. Students use the data cycle by applying it to histograms, scatterplots, and boxplots. The course fosters problem-solving skills, critical thinking, and the application of math to real-world situations, ensuring students meet and exceed the requirements of the Virginia SOL. By the end of the course, students will be prepared for Algebra I. Students enrolled in this course will take the Grade 8 Mathematics SOL assessment.

231110 ALGEBRA I

1 Credit

Prerequisite: *Pre-Algebra Intensified or Pre-Algebra 7 and a passing score on the Grade 8 SOL assessment*

This advanced course requires students to use algebra as a tool for representing and solving a variety of contextual problems. Students use tables and graphs to interpret algebraic expressions, equations, and inequalities and to analyze behaviors of functions. Additionally, students use a transformational approach to graphing functions and writing equations when given the graph of the equation to build a strong connection between algebraic and graphic representations of functions. Computers and graphing calculator technologies are incorporated into the curriculum: 1) to allow students opportunities to explore concepts, 2) to provide visual models to support the learning of algebraic concepts, and 3) as powerful tools for solving and verifying solutions to equations and inequalities. Mathematical communication and reasoning are emphasized throughout the course. Students enrolled in this course take the EOC Algebra I Virginia Standards of Learning test.

2321002 HONORS GEOMETRY**1 Credit*****Prerequisite: Grade 7 Algebra I***

This advanced course is designed for students who have successfully completed the standards for Algebra I. It includes an emphasis on developing reasoning skills through the exploration of geometric relationships including properties of geometric figures, trigonometric relationships, and mathematical proofs. There is an emphasis on two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. Computers and graphing calculator technologies are incorporated into the curriculum to allow students opportunities to explore concepts, engage in inquiry-based learning, provide visual models to support the learning of geometric concepts, and to use as powerful tools for solving and verifying solutions to equations and inequalities. Mathematical communication and reasoning are emphasized throughout the course. Students enrolled in this course will take the EOC Geometry Virginia Standards of Learning test.

Science Courses

Science classes at the middle school level provide students with basic content knowledge in earth, space, biological and physical sciences. The Virginia Science Standards of Learning test given in Grade 8 covers content from all three grades. Becoming familiar with the tools and methods of science to understand the natural world is an important component of the coursework at each grade level. Both science content and methodology are designed to help students be successful in their high school science courses.

321000 GRADE 6 EARTH SCIENCE

This course focuses on students transitioning from elementary to middle school. The science standards support that transition as students examine more abstract concepts, providing a foundation in the disciplines of science. They explore the characteristics of their world, from the Earth's placement in the solar system to the interactions of water, energy, air, and ecosystems on the Earth. As students more closely examine the use of resources, they also consider how their actions and choices affect future habitability on Earth. Students continue to develop scientific skills and processes as they pose questions and predict outcomes, plan and conduct investigations, collect and analyze data, construct explanations, and communicate information about the natural world. Mathematics and computational thinking gain importance as students advance in their scientific thinking. Students continue to use the engineering design process to apply their scientific knowledge to solve problems.

322000 GRADE 7 LIFE SCIENCE

This course emphasizes a more complex understanding of change, cycles, patterns, and relationships in the living world. Students build on basic principles related to these concepts by exploring the cellular organization and the classification of organisms; the dynamic relationships among organisms, populations, communities, and ecosystems; and change as a result of the transmission of genetic information from generation to generation. Students build on their scientific investigation skills through more independent identification of questions and planning of investigations. Students evaluate the usefulness and limits of models and support their conclusions using evidence. Mathematics, computational thinking, and experience in the engineering design process gain importance as students advance in their scientific thinking.

323000 GRADE 8 PHYSICAL SCIENCE

This course stresses an in-depth understanding of the nature and structure of matter and the characteristics of energy. Major areas covered by the standards include the particle nature of matter, the organization and use of the periodic table; physical and chemical changes; energy transfer and transformations; properties of longitudinal and transverse waves; electricity and magnetism; and work, force, and motion. The standards continue to build on skills of systematic investigation with a clear focus on variables and repeated trials. Validating conclusions using evidence and data becomes increasingly important at this level. Mathematics, computational thinking, and experiences in the engineering design process gain importance as students advance in their scientific thinking. Students enrolled in this course will take the Grade 8 Science Standards of Learning test.

Health and Physical Education Courses

Students attend a health and physical education class each year. Students perform a variety of physical activities, learn the benefits of achieving and maintaining a physically active lifestyle and how to achieve good health for a lifetime. Instruction in family life education is included in these year-long courses.

821000 GRADE 6 HEALTH AND PHYSICAL EDUCATION

Students combine fundamental skills into more complex movement forms with modified games, dance/rhythms, and recreational activities. Activities include cooperative and competitive small-group games to develop skills and tactical understanding. Students practice to improve skill performance and fitness. Students assess their health-related fitness status and set reasonable and appropriate goals for development, maintenance, and improvement of their overall fitness. Activities emphasize self-improvement, participation, cooperation, respect for others, and sportsmanship. Students solve problems and make responsible decisions as they work together. Students are encouraged to adapt responsible behaviors that lead to a physically active lifestyle at school and outside the school environment. Health education includes 6th Grade Health Units, Character Playbook (Everfi), Nutrition, Social/Emotional Health and Violence Prevention, Safety and Injury Prevention, and Family Life Education.

822000 GRADE 7 HEALTH AND PHYSICAL EDUCATION

Students continue to develop competence in modified versions of games/sports, dance/rhythms, and recreational activities. Recreational pursuits are emphasized, broadening lifetime physical activity options. Students relate the importance of physical activity to health. They create plans for improving personal fitness. Students continue to develop responsible personal and social behaviors by demonstrating decision-making skills, conflict-resolution skills, appropriate etiquette, and respect for others. Students achieve and maintain personal fitness standards and set reasonable and appropriate goals for improving or maintaining health-related fitness. Health education covers wellness and healthy living, violence prevention, safety and prevention of injury, mental and emotional health, disease of the body, alcohol, tobacco, and other drugs, and family life education.

823000 GRADE 8 HEALTH AND PHYSICAL EDUCATION

Students demonstrate competence in skillful movement in modified and more complex dynamic game/sport situations, dance/rhythm activities, and recreational activities. Students demonstrate mature responsibility as they show respect for others, make reasoned and appropriate choices, resist negative peer pressure, and exhibit fair play. Students set goals, track progress, and participate in physical activities to improve health-related fitness. They develop a repertoire of abilities across a variety of games/sport and recreational pursuits and begin to develop competence in specialized versions of lifetime games, sports, and dance activities. Health education covers the topics of wellness and healthy living, violence prevention, safety and prevention of injury, mental and emotional health, body systems, alcohol, tobacco, and other drugs, and family life education.

English Learner Courses

English Learners (ELs) take courses designed to develop their skills in language acquisition in reading, writing, and academic vocabulary for all content areas.

928000 ESOL FOUNDATIONS

Grades 6, 7, or 8

Note: WIDA ELP Level 1.0 - 1.9 with less than 12 months of instruction in a U.S. school and OR SLIFE designation

This elective course supports Students with Limited or Interrupted Formal Education (SLIFE) and newly arrived English Learners (ELs) at beginning stages of English proficiency. Students receive direct instruction in literacy and mathematics while developing listening, speaking, reading, and writing skills aligned with WIDA English Language Development Standards. Instruction emphasizes foundational literacy, vocabulary, writing, numeracy, and problem-solving skills to equip students for success in core classes.

928110 ESOL ENGLISH FOR ACADEMIC PURPOSES I

Grades 6, 7, or 8

Note: WIDA ELP Level 1.5 - 2.9 with more than 12 months of instruction in a U.S. school and newcomers with WIDA ELP Level 2.0 - 2.9

This course is designed to enrich students' academic language and skills across core content areas: literacy, math, science, and social studies. Students will develop their academic language proficiency in the four domains: reading, writing, listening, and speaking.

Through targeted instruction, students will be engaged in building specialized vocabulary, mastering reading strategies for content-specific texts, and practicing academic discourse models for discussing topics. The course also focuses on content writing, teaching students how to effectively communicate ideas and findings in each subject area. The goal is to provide students with the linguistic tools necessary for continued success in their grade-level courses.

928120 ESOL ENGLISH FOR ACADEMIC PURPOSES II

Grades 6, 7, or 8

Note: WIDA ELP Level 3.0 - 4.3

This course is designed with a focus on deepening students' ability to comprehend and produce complex academic language. The curriculum continues to integrate content from literacy, math, science, and social studies, with a greater emphasis on critical thinking and analysis.

Students will engage in advanced reading strategies, analyze complex texts, and produce sophisticated academic writing, including research summaries and argumentative essays. The course will further refine academic discourse models, preparing students for the rigorous demands of upper-level high school courses and post-secondary education.

973100 MATHEMATICS CONCEPTS FOR ENGLISH LEARNERS

Grades 6, 7, or 8

Placement: Selection for this course is based on a set criteria including WIDA assessments and teacher recommendation.

This course is designed to build background knowledge, mathematical language, basic number sense, and computation skills in newcomer English learners in grades 6-8 with WIDA Proficiency Levels 1-2. The goal of the course is to promote language acquisition while helping students build their mathematical skills. Students will develop content specific vocabulary in the core area of middle school mathematics as aligned with the Virginia Standards of Learning and the WIDA Language Standard of Mathematics.

Elective Courses

Students and their parents/guardians should read elective course descriptions carefully. Each course description indicates the grade level at which the course may be taken, the topics studied in the course, and any background needed for the course. Some electives may not be offered at all schools due to enrollment, available staff, budget, and facilities. Elective courses are full-year courses unless indicated as a semester course.

Visual and Performing Arts Courses

Visual Arts

523610 BEGINNING STUDIO ART (semester)

Grades 6, 7, or 8

In this course, students learn the characteristics of visual art through a wide range of subject matter, symbols, meaningful images, and visual expressions. In classroom discussions, students use an expanding art vocabulary while describing personal work and the work of others. Students classify two-dimensional and three-dimensional images and construct a three-dimensional form. An introduction of color theory, including identifying and constructing a simple color wheel, is a part of this course.

523620 INTERMEDIATE STUDIO ART (semester)

Grades 7 or 8

Prerequisite: Beginning Studio Art

This course teaches the development of visual perception and recording from direct observation, memory, and imagination. Students prepare and develop an idea or theme by collecting and organizing visual resources. In classroom discussions, students use expanding art vocabulary to describe the use of texture, pattern, shape, line, and color. Students apply the basic rules of perspective, proportion, value, and color theory. Students also manipulate distance, size, and placement to create three-dimensional effects on a two-dimensional plane.

523630 ADVANCED STUDIO ART (semester)

Grade 8

Prerequisite: Intermediate Studio Art

This course refines a student's ability to select and control the use of materials, tools, and techniques in their own work to develop, express, and modify ideas, intention, and feeling that were previously developed. Students will continue to understand the visual language of art, expanding art vocabulary while describing their own work and the work of others. Artwork should reflect increased manual and creative skills in addition to expanded knowledge of the use and application of design elements. Students use simple perspective systems for symbolizing what they are rendering. Students also manipulate proportion, value, and color to create realistic or expressive images.

523710 BEGINNING DIGITAL ART (semester)

Grades 6, 7, or 8

Students will learn the characteristics of visual art through a wide range of subject matter, symbols, meaningful images, and visual expressions. This beginning level course will develop computer based artistic skills and creative concepts. An introduction to color theory, and the elements and principles of design, will also be part of this course.

523720 INTERMEDIATE DIGITAL ART (semester)

Grades 7 or 8

Prerequisite: Beginning Digital Art

This is an intermediate level course that will teach the development of visual perception and recording from direct observation, memory, and imagination. Students will explore software applications that promote visual awareness, and expand their skill set in both manual and digital artistic techniques.

523730 ADVANCED DIGITAL ART (semester)

Grades 8

Prerequisite: Intermediate Digital Art

This advanced level course teaches the development of visual perception and recording from direct observation, memory, and imagination. Students will explore software applications that promote visual awareness, and expand their skill set in both manual and digital artistic techniques. The elements and principles of design will be emphasized throughout artistic production and creation as students develop and express intentions and feeling through artistic production and creation.

Music

Note: Ensemble courses (band, chorus, and orchestra) are performance-based courses that involve participation in concerts and other performances and rehearsals outside of class time. There may be a requisite instrumental rental fee and uniform fee for students in these programs.

521110 BEGINNING BAND

Grades 6, 7, or 8

In Beginning Band, students learn proper playing technique on an instrument well-suited to their natural abilities. Students learn to play both individually and in an ensemble setting and learn instrument maintenance. The teacher follows the county-adopted curriculum, which is based on the Virginia Standards of Learning. Evaluation of progress is based on individual playing tests, written work, and daily class participation. Daily, at-home practice is necessary to master playing technique. Since performances are an integral and vital extension of this course, participation in performances outside of the school day may be required.

521120 INTERMEDIATE BAND

Grades 7 or 8

Prerequisite: Beginning Band

Intermediate Band is a continuation of Beginning Band. In intermediate band, students continue to learn proper playing technique and develop ensemble skills. The teacher follows the county-adopted curriculum, which is based on the Virginia Standards of Learning. Evaluation of progress is based on individual playing tests, written work, and daily class participation. Daily, at-home practice is necessary to continue mastering playing technique. Since performances are an integral and vital extension of this course, participation in performances outside of the school day may be required.

521130 ADVANCED BAND

Grade 8

Prerequisite: Intermediate Band

Advanced Band is a continuation of beginning and Intermediate Band. In Advanced Band, students refine playing skills and develop higher-level listening skills. Students are highly encouraged to attend All-County band auditions, All-District band auditions and Solo and Ensemble Festival. The teacher follows the county adopted curriculum, which is based on the Virginia Standards of Learning. Evaluation of progress is based on individual playing tests, written work, and daily class participation. Daily, at-home practice is necessary to continue mastering playing technique. Since performances are an integral and vital extension of this course, participation in performances outside of the school day may be required.

522110 BEGINNING CHORUS

Grades 6, 7, or 8

Beginning Chorus introduces students to the study of vocal technique, vocal pedagogy, proper vocal production, correct abdominal breathing, intonation, posture, and conducting patterns. Music theory, ear training, sight-singing, music repertoire development, music history, analysis, and technology are components of this course. The teacher follows the county-adopted curriculum, which is based on the Virginia Standards of Learning. Students also develop their abilities to perform as an ensemble. Additional goals for the course focus on assisting students in understanding the role of music in our society, appreciating different cultures and customs, acquiring stage presence and decorum, and fostering positive attitudes for further choral study.

522120 INTERMEDIATE CHORUS

Grades 7 or 8

Prerequisite: Beginning Chorus

Intermediate Chorus is a continuation of Beginning Chorus. This course extends students' skills and understanding of musical compositions, basic theory structure, music history, vocal pedagogy, proper vocal production and technique. The goals of the course set higher expectations of a student's knowledge and understanding of vocal technique, music theory, ear training, sight-singing, music history, analysis, and technology. Development of the student's ability to perform as an ensemble is a strong focus for the course. Students study the role of music in our society, different cultures and customs, stage presence, and decorum. Since performances are an integral and vital extension of this course, participation in performances outside of the school day may be required.

522130 ADVANCED CHORUS

Grade 8

Prerequisite: Intermediate Chorus

Advanced Chorus is a continuation of Intermediate Chorus. This course establishes a high expectation level for a student's development and refinement of skills and understanding of musical compositions, vocal technique, proper vocal production, and technique. These goals target increasing and deepening a student's knowledge and understanding of music theory, ear training, sight-singing, music history, analysis, and technology. The development of ensemble performance skills is a strong focus for the course. Students extend their understanding of music through interdisciplinary activities and exploration of career opportunities in the field of music. Students increase their understanding of the role of music in our society, different cultures and customs, stage presence, and decorum. Students are highly encouraged to attend All-County and All-District Chorus auditions. Since performances are an integral and vital extension of this course, participation in performances outside of the school day may be required.

521210 BEGINNING ORCHESTRA

Grades 6, 7, or 8

In Beginning Orchestra, students study an instrument from the string family (violin, viola, cello, bass). Students learn correct technique on their chosen string instrument and perform in an ensemble through sequential music exercises, folk songs, and age-appropriate repertoire. Students are guided to the understanding of musical compositions, basic theory structure, music history, music interpretation, articulation, dynamics, phrasing, ensemble balance, bowing technique, instrument care, tone production, and conducting patterns. Daily, at-home practice is necessary to continue mastering playing technique. Since performances are an integral and vital extension of this course, participation in performances outside of the school day may be required.

521220 INTERMEDIATE ORCHESTRA

Grades 7 or 8

Prerequisite: Beginning Orchestra

Intermediate Orchestra is a continuation of Beginning Orchestra. Students continue the mastery of string technique and ensemble performance through the study of advanced music exercises, folk songs, and age-appropriate repertoire. Daily, at-home practice is necessary to continue mastering playing technique. Performance opportunities will be more abundant. Since performances are an integral and vital extension of this course, participation in performances outside of the school day may be required.

521230 ADVANCED ORCHESTRA

Grade 8

Prerequisite: Intermediate Orchestra

Advanced Orchestra is a continuation of Beginning and Intermediate Orchestra. Students continue the mastery of string technique and ensemble performance through advanced technical etudes, scales and arpeggios, and age-appropriate repertoire. Daily, at-home practice is necessary to continue mastering playing technique. Preparation for performances is more intensive. Since performances are an integral and vital extension of this course, participation in performances outside of the school day may be required.

520410 GUITAR (semester)

Grades 7 or 8

This course is designed for students with a passion for music and desire to learn guitar. Guitar instruction emphasizes basic technique, music reading, progressions, and music theory. Music literature is selected from classical and contemporary repertoire. This course offers a comprehensive study of all musical styles. This course may only be taken once. No prior experience is required.

520420 MUSIC PRODUCTION (semester)

Grades 7 or 8

This course is for students with a passion for music and creativity. In this hands-on course, students will create sound maps and basic recording techniques while composing original compositions. Students will collaborate with others to create a production plan to perform, record, and produce music through the exploration of electronic sounds, software-based instruments, and traditional acoustic instruments. Students will become active music makers, creators and responders to music. This course may only be taken once.

Theatre Arts

524510 BEGINNING THEATRE ARTS (semester)

Grades 6, 7 or 8

In this course, students develop their creative potential by producing and participating in dramatic and theatrical experiences. Through activities that require students to work cooperatively, students begin to develop their internal and external personal resources and form aesthetic judgments. They are exposed to dramatists and their works and to key theatrical players and participants. Students begin to integrate drama with other academic disciplines.

524520 INTERMEDIATE THEATRE ARTS (semester)

Grades 7 or 8

Prerequisite: Beginning Theatre Arts

This course begins to refine students' dramatic and theatrical skills typically learned in Beginning Theatre Arts. Using voice, language, movement, imagination, and emotional perception, students develop characters for the theater, and their own self-discipline and self-concept. They learn drama through artistic collaboration through improvisation, play writing, directing, technical production, and theater management. In addition, students learn about theater in the past and theater today with an emphasis on available roles and careers.

524530 ADVANCED THEATRE ARTS (semester)

Grade 8

Prerequisite: Intermediate Theatre Arts

This course continues to refine students' dramatic and theatrical skills previously taught in Intermediate Theatre Arts. Using voice, language, movement, imagination, and emotional perception, students develop not only characters for the theater, but their own self-discipline and self-concept. They learn through artistic collaboration with activities such as improvisation, play writing, directing, technical production, and theater management. In addition, students learn about theater in the past and theater today with an emphasis on available roles and careers.

World Language Courses

In a beginning world language course, students gain an understanding of the components of a world language and of the study skills necessary to learn a world language.

A world language course is a high school credit-bearing class; students who elect to take a world language will be enrolled in this class for the full year and follow Stafford County guidelines for middle school students enrolled in high school credit-bearing courses.

All middle schools offer Spanish I. Additional language courses will be offered as determined by staff availability.

838100 SPANISH I

Grade 8

1 Credit

Students gain an understanding of the components of a world language and the study skills necessary to learn a world language. As students develop skills in listening, speaking, reading, and writing, they engage in active practice in real-life situations and in a variety of cultural contexts.

835100 FRENCH I

Grade 8

1 Credit

Students gain an understanding of the components of a world language and the study skills necessary to learn a world language. As students begin to develop skills in listening, speaking, reading, and writing, they engage in active practice in real-life situations and in a variety of cultural contexts.

836100 GERMAN I

Grade 8

1 Credit

Students gain an understanding of the components of a world language and the study skills necessary to learn a world language. As students begin to develop skills in listening, speaking, reading, and writing, they engage in active practice in real-life situations and in a variety of cultural contexts.

837100 LATIN I

Grade 8

1 Credit

Students are introduced to the basic vocabulary and grammar system of the language. Roman life, history, mythology, and English derivations are integral parts of the course.

838120 SPANISH FOR FLUENT SPEAKERS I

Grade 8

1 Credit

This course is intended for fluent, heritage, or native speakers of Spanish, including Spanish-speaking English Language Learners. This course will be taught in Spanish. The goal of the course is to provide fluent Spanish-speaking students with opportunities to develop their speaking, listening, writing, and reading skills and abilities. Students will study Hispanic culture and history to strengthen identity and build a sense of community.

Career and Technical Education Courses

State-Required Career Investigation

620200 PATHWAYS TO SUCCESS (semester)

Grade 7

Students explore career pathways within the 14 identified career clusters by investigating through self-discovery and project-based learning activities. Self-assessments will allow students to discover their interests, strengths, and explore various pathways in high school and beyond by creating an "Academic and Career Plan." This course meets the state's regulatory requirement to provide a career investigations course during middle school.

Business and Information Technology

623010 BEGINNING DIGITAL EXPLORATIONS (semester)

Grade 6

Students are introduced to computing devices and software as problem-solving tools. Students will complete a variety of projects with word processing, database, presentation, and spreadsheet software. Students explore Internet safety and digital citizenship.

623020 INTERMEDIATE COMPUTER SCIENCE DISCOVERIES (semester)

Grades 7 or 8

Computer Science Discoveries, takes a wide lens on computer science by covering topics such as problem solving, programming, physical computing, user centered design, and data. Students will build their own websites, apps, animations, games, and physical computing systems. An interdisciplinary approach will be supported in teaching and learning.

623030 ADVANCED DIGITAL EXPLORATIONS (semester)

Grades 7 or 8

This course prepares students to utilize various digital concepts, programs, and tools, granting them greater understanding of the technology that influences their lives. They'll learn to use this newfound knowledge to solve problems and grow into responsible digital citizens to prepare them for high school. Students demonstrate an understanding of computer concepts through the application of knowledge and real-world activities and develop employability skills.

Technology and Engineering Education

627100 BEGINNING TECHNOLOGY AND ENGINEERING (semester)

Grade 6

This foundational course establishes OSHA safety standards through the use of the Engineer Design Process. Students investigate the relationship between technology, engineering, and how technology impacts the world around them. Project based learning is used to explore hand tools, materials, and techniques used to address occupational challenges. Students may design projects with computer aided drafting, 3D printing, parts of a system, and sublimation. Workplace Readiness Skills and career awareness activities in STEM are embedded throughout the course.

627200 INTERMEDIATE TECHNOLOGY AND ENGINEERING (semester)

Grades 7 or 8

Students expand their knowledge of the Engineer Design Process by transforming materials into useful products. Students investigate inventions and engineering achievements that have impacted history, advanced society, and altered our world. Problem Based Learning is used to plan, design, build, and present how innovations address contemporary technological problems. These future engineers improve and repurpose a product using emerging technologies to include: machine tools, hand tools, and advanced machining software. Students are introduced to work-based learning experiences and benefits of participating in Technology Student Association (TSA).

627300 ADVANCED TECHNOLOGY AND ENGINEERING (semester)

Grades 7 or 8

This advanced technology and engineering course utilizes the Engineering Design Process to introduce: construction, transportation, manufacturing, communication, power and energy, and biotechnology pathways. Students interpret designer's schematics to choose the best materials for designing and assembling a product in the production lab using industry appropriate machinery. Students will be exposed to processes for working with plastics, metals, woods, ceramics, and composites to produce a product or meet a need. Challenging laboratory activities ignite students' creativity to build systems and analyze technologies to learn how and why they work. Students will practice workplace readiness skills, gain exposure to work-based learning and collaborate with high school Technology Student Association (TSA) members.

Family and Consumer Sciences

626010 BEGINNING FAMILY AND CONSUMER SCIENCES (semester)

Grade 6

Students explore the Family and Consumer Sciences program areas through creative and critical thinking activities. Students make decisions about their individual growth, goal setting, money management, healthy food selections, food preparation, and clothing care. They learn to manage time, resources, and program equipment. This is an interdisciplinary approach to family and consumer sciences.

626020 INTERMEDIATE DESIGNING WITH FOODS, FASHION, AND FAMILY (semester)

Grades 7 or 8

Students utilize the design thinking process to learn family and consumer science concepts. Students resolve issues in foods, fashion, and family as they move through the design process. They explore nutrition, wellness, food preparation, personal finance, resource management, textile/apparel problems and construction, and address the needs of the family and community.

626030 ADVANCED JOURNEY TOWARDS INDEPENDENCE (semester)

Grades 7 or 8

This course provides advanced consumer literacy tools to help students develop independent living skills. Students will use problem-based projects and real-world experiences to address consumer decisions, time and money management with financing a living space, clothing, child care, and food preparation while balancing relationships, family, and learning workplace readiness skills. Projects may include Life/Event Planning, Entrepreneurship, and Service Learning in the community.

Academic Electives

420100 COMMUNITY LEADERS I (semester)

Grades 6, 7, or 8

This project-based elective course explores the qualities of leadership, identifies students' leadership skills and how they can help build a stronger school. Various forms of literature and media sources will be explored to identify the qualities of a leader and relate those to current student-led initiatives around the world. Students will identify and present school community needs and develop a plan to bring awareness and/or create solutions by completing a school-based community service project. During this course students will strengthen their leadership capacity through a focus on collaboration, critical thinking, creativity, communication, citizenship, and wellness.

420200 COMMUNITY LEADERS II (semester)

Grades 7 or 8

Building on the leadership skills developed in Community Leaders I, students will continue to explore the styles and characteristics of leadership. They will focus on how they can build stronger communities. Various forms of literature and media sources will be explored to identify the qualities of a leader and relate those to current student-led initiatives around the world. Students will identify and present community needs and develop a plan to bring awareness and/or create solutions by completing a community service project. During this course students will strengthen their leadership capacity through a focus on collaboration, critical thinking, creativity, communication, citizenship, and wellness.

420300 HISTORY AND SOCIAL STUDIES INDEPENDENT STUDY (semester)

Grades 7 or 8

Students will use this course to complete a National History Day project. With support from a teacher, students will research a topic that aligns with the annual theme and complete one of 5 types of projects: exhibit, website, documentary, performance, or research paper. Students may present their projects at the Stafford Social Studies Showcase and compete in the Virginia/National History Day competitions. This course may only be taken once.

LITERACY LAB

121000 GRADE 6

122000 GRADE 7

123000 GRADE 8

Placement: Selection for this course is based on a set of criteria including previous SOL tests, reading assessments, and teacher recommendation.

The focus of this course is to provide students with explicit, direct instruction in decoding, reading fluency, vocabulary development, and comprehension strategies to build background knowledge. Direct instruction in phonemic awareness and phonics is provided as needed. Students' strengths and weaknesses are addressed through whole group and small group instruction. Emphasis is placed on understanding text structure, building background knowledge, making relevant connections to text, asking questions, inferring, summarizing, and synthesizing through systematic reading and writing instruction. Using a blended learning approach that combines personalized, computer-based instruction with explicit, targeted teacher-delivered lessons and activities, this course will deliver the exact instruction each student needs to become a proficient reader.

128200 PUBLIC SPEAKING AND DEBATE (semester)

Grades 6, 7, or 8

This course will introduce students to the basics of public speaking, including debate and online formats such as podcasts and Ted Talks. Students will learn the purpose of a speech and practice various forms of public speaking

and debate. This course supports critical thinking, research, writing, and public speaking. Students will participate in class presentations and debates. This course may only be taken one time.

128110 CREATIVE WRITING (semester)

Grades 6, 7 or 8

Note: This course may only be taken once.

Students will use mentor texts to discover and refine a variety of writing styles to write creatively and expressively, with a focus on lively and descriptive language. Students will write a variety of creative pieces culminating in a writing portfolio. Students will peer edit and provide guidance on written papers in structured writing centers.

INVESTIGATE MATHEMATICS

220100 Grade 6

220200 Grade 7

Placement: Selection for this course is based on a set criteria including previous SOL assessment scores, a NWEA MAP Growth assessment, and teacher recommendation.

This course provides students with the opportunity to further explore mathematical topics through hands-on experiences to deepen their conceptual understanding and strengthen their performance and confidence with mathematics. Students will receive systematic, targeted intervention to close instructional gaps and to improve number sense, computation, and algebraic skills. There will be a focus on problem solving strategies and critical thinking skills.

INVESTIGATE ALGEBRA I

220300 Grade 8

Note: Students should be concurrently enrolled in Algebra I

Placement: Selection for this course is based on a set criteria including previous SOL assessment scores, a NWEA MAP Growth Assessment, and teacher recommendation.

Investigate Algebra I is a course designed to support students while enrolled in Algebra I. This course provides an in-depth review and reinforcement of fundamental mathematical concepts that are the foundation for success in Algebra I. Key topics include, but not limited to, properties of numbers, fractions, decimals, ratios, proportions, and introductory algebraic concepts such as solving simple equations and understanding variables. Through a combination of direct instruction, collaborative problem-solving, and targeted practice, students will build a strong mathematical foundation, gain confidence in their skills, and develop the critical thinking necessary for more advanced mathematical studies.

220400 MATHEMATICS PERFORMANCE LAB (semester)

Grades 7 or 8

This elective course is designed to give students opportunities to work through rich mathematical tasks and empower them to utilize critical thinking skills. Students will work cooperatively through real-world scenarios while making powerful connections between mathematical content and skills. Algebraic topics will be emphasized through a problem-centered, inquiry-based learning environment. This course may only be taken once.

220000 INNOVATION STUDIO (semester)

Grades 7 or 8

The Innovation Studio elective course explores science, technology, engineering, and math all in one curriculum. Learners are presented opportunities to work in collaborative groups to solve relevant interdisciplinary-based problems. Robotics, coding, and prototyping provide an environment for students to demonstrate computational thinking and mastery of all-century skills. This course may only be taken once.

320100 EXPLORING LIVING SYSTEMS, MARVELS, AND PHENOMENA (semester)
Grades 7 or 8

This science lab elective complements Life Science as it focuses on both scientific inquiry and specific investigations that help students decode the diversity of life, ecosystems, phenomena, and decode physical forces, and chemical processes through direct data collection of qualities and quantities providing evidence for understanding.

Index of Middle School Courses

COURSE #	COURSE	HIGH SCHOOL CREDIT	Duration	GRADE	PLACEMENT/ PREREQUISITE
ENGLISH					
121110	Grade 6 English	0	full year	6	
122110	Grade 7 English	0	full year	7	
123110	Grade 8 English	0	full year	8	
HISTORY AND SOCIAL SCIENCE					
421000	Grade 6 United States History: 1865 to the present	0	full year	6	
422000	Grade 7 Civics and Economics	0	full year	7	
423000	Grade 8 World Geography	0	full year	8	
MATHEMATICS					
221100	Pre-Algebra 6	0	full year	6	
221110	Pre-Algebra 6 Intensified	0	full year	6	Selection for this course is based on a set criteria.
221200	Pre-Algebra 7	0	full year	7	
221300	Foundations of Algebra I	0	full year	8	Selection based on a set of criteria including assessment data and teacher recommendation.
231110	Algebra I	1	full year	7-8	Pre-Algebra Intensified or Pre-Algebra 7 and a passing score on the Grade 8 SOL assessment
2321002	Honors Geometry	1	full year	8	Grade 7 Algebra I
SCIENCE					
321000	Grade 6 Science	0	full year	6	
322000	Grade 7 Life Science	0	full year	7	
323000	Grade 8 Physical Science	0	full year	8	
HEALTH AND PHYSICAL EDUCATION					
821000	Grade 6 Health and Physical Education	0	full year	6	
822000	Grade 7 Health and Physical Education	0	full year	7	
823000	Grade 8 Health and Physical Education	0	full year	8	
ENGLISH LEARNERS (EL)					
928000	ESOL Foundations	0	full year	6, 7, 8	WIDA ELP Level 1.0 - 1.9 with less than 12 months of instruction in a U.S. school and OR SLIFE designation
928110	ESOL English for Academic Purposes I	0	full year	6, 7, 8	WIDA ELP Level 1.5 - 2.9 with more than 12 months of instruction in a U.S. school and newcomers with WIDA ELP Level 2.0 - 2.9
928120	ESOL English for Academic Purposes II	0	full year	6, 7, 8	WIDA ELP Level 3.0 - 4.3
973100	Mathematics Concepts for English Learners	0	full year	6, 7, 8	Selection for this course is based on a set criteria including WIDA assessments and teacher recommendation.

COURSE #	COURSE	HIGH SCHOOL CREDIT	Duration	GRADE	PLACEMENT/ PREREQUISITE
ELECTIVES-VISUAL AND PERFORMING ARTS					
VISUAL ARTS					
523610	Beginning Studio Art	0	semester	6-8	
523620	Intermediate Studio Art	0	semester	7-8	Beginning Studio Art
523630	Advanced Studio Art	0	semester	8	Intermediate Studio Art
523710	Beginning Digital Art	0	semester	6-8	
523720	Intermediate Digital Art	0	semester	7-8	Beginning Digital Art
523730	Advanced Digital Art	0	semester	8	Intermediate Digital Art
PERFORMING ARTS					
521110	Beginning Band	0	full year	6-8	
521120	Intermediate Band	0	full year	7-8	Beginning Band
521130	Advanced Band	0	full year	8	Intermediate Band
522110	Beginning Chorus	0	full year	6-8	
522120	Intermediate Chorus	0	full year	7-8	Beginning Chorus
522130	Advanced Chorus	0	full year	8	Intermediate Chorus
521210	Beginning Orchestra	0	full year	6-8	
521220	Intermediate Orchestra	0	full year	7-8	Beginning Orchestra
521230	Advanced Orchestra	0	full year	8	Intermediate Orchestra
520410	Guitar	0	semester	7-8	
520420	Music Production	0	semester	7-8	
524510	Beginning Theatre Arts	0	semester	6-8	
524520	Intermediate Theatre Arts	0	semester	7-8	Beginning Theatre Arts
524530	Advanced Theatre Arts	0	semester	8	Intermediate Theatre
ELECTIVES-WORLD LANGUAGES					
838100	Spanish I	1	full year	8	
835100	French I	1	full year	8	
836100	German I	1	full year	8	
837100	Latin I	1	full year	8	
838120	Spanish For Fluent Speakers I	1	full year	8	This course is intended for heritage and native speakers of Spanish and is taught in Spanish.
CAREER AND TECHNICAL EDUCATION					
BUSINESS AND INFORMATION TECHNOLOGY					
623010	Beginning Digital Explorations	0	semester	6	
623020	Intermediate Computer Science Discoveries	0	semester	7-8	
623030	Advanced Digital Explorations	0	semester	7-8	
TECHNOLOGY EDUCATION					
627100	Beginning Technology and Engineering	0	semester	6	
627200	Intermediate Technology and Engineering	0	semester	7-8	
627300	Advanced Technology and Engineering	0	semester	7-8	
FAMILY AND CONSUMER SCIENCES					
626010	Beginning Family and Consumer Sciences	0	semester	6	
626020	Intermediate Designing with Foods, Fashion, and Family	0	semester	7-8	

COURSE #	COURSE	HIGH SCHOOL CREDIT	Duration	GRADE	PLACEMENT/ PREREQUISITE
626030	Advanced Journey Towards Independence	0	semester	7-8	
ACADEMIC ELECTIVES					
121000 122000 123000	Literacy Lab	0	full year	6-8	Selection for this course is based on a set of criteria including previous SOL tests, reading assessments, and teacher recommendation.
128110	Creative Writing	0	semester	6-8	
128200	Public Speaking and Debate	0	semester	6-8	
420100	Community Leaders I	0	semester	6-8	
420200	Community Leaders II	0	semester	7-8	
420300	History and Social Studies Independent Study	0	semester	7-8	
220100 220200	Investigate Mathematics	0	full year	6-7	Selection for this course is based on a set criteria including previous SOL tests and teacher recommendation.
220300	Investigate Algebra I	0	full year	8	
220400	Mathematics Performance Lab	0	semester	7-8	
220000	Innovation Studio	0	semester	7-8	
320100	Exploring Living Systems, Marvels, and Phenomena	0	semester	7-8	
STATE-REQUIRED CAREER INVESTIGATIONS					
620200	Pathways to Success	0	semester	7-8	

HIGH SCHOOL SCHOOL PROGRAM



2026-2027

PROGRAM OF STUDIES

High School Program

The purpose of high school is to solidify the educational experience (K-12) of all students as they transition to postsecondary life. In addition, it ensures that students are not only equipped with necessary and rigorous academic knowledge, but also with the ability to apply it to complex, real-life situations thereby positively impacting their local and global communities. Moreover, it facilitates an environment that builds upon a foundation of social and emotional wellness and awareness, producing well-rounded individuals that are prepared for the transition into adulthood.

Stafford Schools' [Framework for Student Learning](#) and the [Stafford Profile of a Graduate](#) guides our dedicated educators to deliver high-quality curriculum through evidence-based instruction. Our classrooms are designed to engage students in critical thinking, communication, collaboration, and creativity in an environment that is supportive of their unique learning and social-emotional needs. Student progress is assessed using a multi-faceted approach to determine those needs, and provide intervention, practice, and enrichment. Regardless of students' postsecondary aspirations (work-ready, post secondary education, military), Stafford Schools staff support their goals, pathways, and ultimate success.

General Course Information

Promotion

The following criteria shall be used in determining promotion to the next grade of high school students:

- Students shall be promoted to grade 10 when they have earned six standard units of credit and completed two semesters.
- Students shall be promoted to grade 11 when they have earned 12 standard units of credit and completed six semesters.

Course Registration

During the winter and spring, school counselors in each middle and high school will meet with students and/or parent/guardian(s) to help students choose appropriate courses. Courses are selected using the online platforms of StudentVue or ParentVue. Certain courses are required based on state graduation requirements, with many courses selected according to a student's interests and postsecondary goals. Generally, elective courses must have an enrollment of 15 students to be offered; staffing limitations may also impact the ability for a course to be offered. Alternates for elective courses should be chosen, in case a schedule conflict or low enrollment forces cancellation of a course. Electives and alternates should be requested with the understanding that they may become a part of a student's final schedule for that school year. Retained high school students may be offered appropriate coursework outside of the listed course grade levels to support post-secondary goals and on-time graduation.

Course Changes

While every effort is made to provide educational opportunities that meet the needs of all students, on occasion, courses must be canceled. Generally, courses will be offered with a minimum enrollment of 15. Courses may not be able to be offered based on staffing and/or facility limitations. Juniors and seniors receive priority enrollment to complete graduation requirements. Course sections are filled and balanced using student course requests, which may include alternate electives.

Requests for schedule changes after the course request process ends may be considered in the following situations:

- Student's schedule is missing required courses for diploma requirements or any required specialized services;
- Student did not meet a course prerequisite;
- Student has previously earned credit for a course;
 - Note: Certain courses may be repeated. Please see the assigned school counselor for details.
- Student is requesting a course level change; or
- Student is missing a course or if a course is listed twice.

Important notes regarding timeline for changes:

- Principals may approve a course request change not listed above after the 5th scheduled class meeting, based on academic needs, scheduling constraints, and/or other course requirements. However, approval is not guaranteed and will be contingent on factors such as class size, course availability, and potential impact on the student's academic progress.
- Courses dropped after the 15th class meeting (based on date of student placement) with principal approval will be recorded on the student transcript as a "Withdraw Pass" ("WP") or "Withdraw Fail" ("WF") and will not be included in the calculation of the student's GPA.
- Course level changes, such as honors to regular, will be considered until five days past the end of the first grading period. The principal may review and approve level changes beyond this deadline.
- The drop/add date for Dual Enrollment and Virtual Virginia courses will be determined by the sponsoring college or organization.

Auditing Courses

Course audits may be considered on a space available basis and at the sole discretion of the principal. Students who are approved to audit a course are expected to complete all assignments and assessments. Audited courses will not be computed into the student's grade point average. Commonwealth Governor's School (CGS) courses may not be audited unless approved by the CGS director and the principal. AP, DE, IB, and Project Lead the Way (PLTW) courses may not be audited.

Credit Recovery and Virtual Courses

Recognizing that students may run into difficulty earning credits or accessing certain courses desired to fulfill their academic/career goals, Stafford Schools utilizes technology and VDOE approved digital curriculum to offer high school courses online as needed. This includes online initial credit and credit recovery courses. Students may be able to take an online course with a Stafford teacher or enroll in a virtual course through an approved online provider. Students interested in pursuing credit recovery or virtual courses should speak with their school counselor to review available offerings to fulfill their scheduling needs.

The purpose of a credit recovery course is to provide an opportunity for a student who failed a course to accelerate and complete courses based on individual needs and to meet specific graduation requirements. Credit recovery courses are self-paced and based on mastery of individual units. Participation requires prior approval by the principal. Students must pass the final examination to earn credit and a final grade.

Credit recovery courses do not meet the NCAA eligibility requirements. For additional information about NCAA guidelines, please visit [Stafford Schools NCAA Eligibility](#). For NCAA guidelines and requirements for non-traditional and online courses, please visit the NCAA's [Guide for the College-Bound Student Athlete](#). For more information regarding the rules please visit the [NCAA site](#) or the [NCAA Eligibility Center](#). For local assistance, please contact your NCAA school counseling representative.

Dual Enrollment Courses

Dual enrollment (DE) courses provide high school juniors and seniors and qualified underclassmen an opportunity to take college courses while completing their high school requirements. Courses are taught by high school instructors who have the qualifications to teach at the college level. DE courses are offered through multiple post-secondary providers; each provider may have unique requirements for courses and grading practices. Interested students should discuss DE options with their high school counselors.

Prospective students must apply to the college, provide qualifying GPA, PSAT, SAT, ACT scores, and complete the college registration process in the spring. Stafford's reduced tuition rates for dual enrollment are the responsibility of families. In determining whether to drop or withdraw from a DE course, the student must follow drop/add procedures and timelines established by the college, not those of the school division.

Dual Enrollment Qualifications:

- 3.0 GPA, OR PSAT ERW score of 390 or higher, OR SAT ERW score of 480 or higher, OR ACT score of 18

or higher on English and Reading, OR Virginia Placement Test (VPT) ENG 111 placement score:

- Additional qualifying scores for Mathematics courses include: 3.0 GPA and a C or better in high school math courses, OR PSAT ERW score of 390 or higher and a PSAT math score of 500 or higher, OR SAT ERW score of 480 or higher and SAT math score of 530 or higher, OR ACT score of 18 or higher on English and reading and ACT math score of 22 or higher, OR VPT ENG 111 placement and VPT MTH 154 placement scores.
- Sophomores may be considered on a case by case basis and are subject to additional placement criteria set by Germanna Community College.

DE courses will only be offered if minimum enrollment requirements are met and a qualified teacher is available. Stafford Schools will offer a letter of intent to hire students who successfully complete the Teachers for Tomorrow program, complete a College/University Education program, and are eligible to earn a teacher license. Students with an IEP or 504 plan can receive accommodations for high school credit. Students with an IEP or 504 plan must apply and be approved for accommodations for the college credit through the community college. Please visit [Accessibility Resources](#) at [Germanna.edu](#) for more information and application instructions.

Uniform Certificate of General Studies

The Uniform Certificate of General Studies (UCGS) is a one-year college program in which all courses are transferable and satisfy lower-division general education requirements at any Virginia public institution of higher education. The Passport is a component of the UCGS and is therefore a subset of courses in the UCGS. The UCGS consists of seven course blocks. To satisfy the UCGS students are required to complete the appropriate number of courses in each block as described below. Student course selection should be carefully considered since the UCGS program is not designed to capture the complexities of individual programs study at four-year institutions. Students should be advised to take the UCGS course that best suits their intended program of study at the four-year institution. Courses designated as meeting UCGS requirements and held in a Stafford School with a credentialed high school teacher are offered at no tuition cost to students.

UCGS Course Listing

ENG 111 and ENG 112 - College Composition I and II
ART 101 and ART 102 - History of Art
ENG 255 - World Literature
PLS 135 - U.S. Government and Politics
BIO 101 and BIO 102 - General Biology I and II
CHM 111 and CHM 112 - General Chemistry I and II
ENV 121 and ENV 122 - General Environmental Science I and II
PHY 201 and PHY 202 - General College Physics I and II
MTH 154 - Quantitative Reasoning
MTH 245 - Statistics
MTH 161 and MTH 162 - Precalculus I and II
MTH 263 and MTH 264 - Calculus I and II
MTH 266 Linear Algebra
MTH 267 Differential Equations
HIS 121 and HIS 122 - United States History
FRE 201 and FRE 202 - Intermediate French I and II
SPA 201 and SPA 202 - Intermediate Spanish I and II

International Baccalaureate Diploma Programme

International Baccalaureate (IB) Diploma Programme (DP) is a rigorous pre-university course of study in the last two years of high school that focuses on developing the student as a whole by emphasizing ten Learner Profile traits: IB learners strive to be inquirers, knowledgeable, thinkers, communicators, principled, open-minded, caring, risk-takers, balanced, and reflective. This focus, in turn, develops and hones university-and career-readiness skills, including a strong work ethic, problem-solving and analytical thinking, collaboration, communication, and global awareness.

When combined with the “Pre-DP” preparatory courses in grades 9-10, the IB Diploma Programme is a coordinated four-year sequence of college preparatory study that meets the needs of highly motivated secondary school students.

IB courses carry the potential for earning college credit. Students enrolled in individual IB courses must complete all assessments embedded throughout the year, and are strongly encouraged to take the end-of-year IB assessment in May. Students and/or parents/guardians are responsible for the IB exam fee by the appropriate date. Opportunities for financial assistance may be available. Please see your school counselor. Students enrolled in the IB Diploma Programme must complete all assessments including the assessment in May.

Students pursuing the full IB Diploma complete one course from each of the six subject groups). In addition, full IB Diploma students will research and write an independent, argumentative 4000-word Extended Essay on a topic of personal interest and complete the metacognitive Theory of Knowledge (ToK) course as well as a Creativity, Activity, and Service (CAS) experiences portfolio designed to provide balance for the academic rigor of the program.

It is strongly recommended that students interested in the IB Diploma Programme visit the IB page on the MVHS website for more information and attend an IB Information Night.

As a part of the implementation of specialty centers in Stafford Schools, the IB Diploma Programme is being consolidated to MVHS as a part of the Center for Leadership, Education, and Public Service Center beginning with rising 9th graders in 2024-2025. Students enrolled in the IB program at BPHS prior to 2024-2025 will continue in their IB program at BPHS through 2026-2027.

Advanced Placement Capstone Program

The AP Capstone Program is a two-year seminar and research course that explores real-world issues while focusing on developing critical analysis, communication, and investigative skills. AP Capstone, developed by College Board, is built on the foundation of two courses—AP Seminar and AP Research—and is designed to complement and enhance the in-depth, discipline-specific study provided through AP courses. It cultivates curious, independent, and collaborative scholars and prepares them to make logical, evidence-based decisions.

AP Capstone Diploma

Students who earn scores of 3 or higher in both of the AP Capstone courses and on four additional AP Exams of their choosing will receive the AP Capstone Diploma.

AP Seminar and Research Certificate

Students who earn scores of 3 or higher in both of the AP Capstone courses but not on the four additional AP Exams will receive the AP Seminar and Research Certificate, signifying successful performance in those courses.

Stafford offers a wide range of AP courses and students may take them as part of a program, or in the course offerings at a particular school as offered to enhance their high school experience with robust and rigorous coursework. Students may apply for test fee reductions or waivers if financial assistance is needed.

Credit by Demonstrated Proficiency

Students in grades 9-12 who speak a language other than English may elect to take a language proficiency test to receive world language credit which may assist in meeting graduation requirements. Internationally recognized, web-based assessments have been identified for demonstration of language proficiency in Arabic, French, German, Hebrew, Hindi, Italian, Japanese, Korean, Mandarin (Simplified and Traditional), Polish, Portuguese (Brazilian), Russian and Spanish. Speakers of other languages will be tested through Alta Language Services.

Eligible students should be native or heritage speakers, or have substantial exposure outside of school to the target language through reading, writing, speaking, and listening.

Students may earn up to four world language credits through this exam. Credits earned will appear on a student’s transcript as “pass” and will not impact a student’s GPA in any way. If a student does not earn credit through this exam, their transcript will not be negatively affected.

Proficiency	Credit	Next World Language Level Placement	Next Spanish for Fluent Speakers (SFS) Placement
Novice-Mid	1	Level 2	SFS II
Novice-High	2	Level 3	SFS III
Intermediate-Low	3	Level 4/IB/DE	
Intermediate-Mid	4	AP/IB/DE	

839810 - Other World Language: Heritage Language – I
839820 - Other World Language: Heritage Language – II
839830 - Other World Language: Heritage Language – III
839840 - Other World Language: Heritage Language – IV

Testing is available in the following languages:

Arabic, Amharic, Armenian, Chin, Czech, Dari, Farsi, Filipino (Tagalog), French, German, Haitian-Creole, Hebrew, Hindi, Hmong, Ilocano, Italian, Japanese, Korean, Mandarin (Simplified and Traditional), Pashto, Polish, Portuguese (Brazilian), Russian, Samoan, Somali, Spanish, Tamil, Telugu, Turkish, Twi, Urdu, Vietnamese, Yup'ik

Students should contact their school counselor for test dates. Students from all 5 high schools will be eligible for this opportunity, however, testing will happen twice per year. There is no cost to Stafford students for the first time that they take the test as part of this process. Re-tests are at the expense of the student and the cost varies per test.

Preparing a Student High School Plan

Below are sample four-year plans to assist with scheduling your courses. Boxes marked "Required Elective" indicate the minimum electives required for graduation. Students should consult their counselor when choosing these courses. Boxes marked "Student Choice" are those you may select for additional courses. The blank sample four-year plan is for you and your parents/guardians to prepare a customized plan to meet your educational and career objectives. The blank plan contains ten class spaces to provide for alternatives, if your first choice cannot be scheduled. Remember that you cannot sign up for your exact period-by-period schedule.

Sample Standard Diploma Four-Year Plan

Class	9 th Grade	10 th Grade	11 th Grade	12 th Grade
1	English 9	English 10	English 11	English 12
2	World History to 1500/World Geography	Required Elective	Virginia and United State History	Virginia and United State Government
3	Earth Science or Environmental Science	Biology	Upper Level Science	Student Choice
4	Algebra I or Geometry	Geometry or Algebra II	Algebra, Functions and Data Analysis or Algebra III	Algebra II or Pre-calculus
5	Health and PE 9	Health and PE 10	Required Elective	Required Elective
6	Fine Arts or Career and Technical Education	Required Elective	Economics and Personal Finance	Required Elective
7	Student Choice	Student Choice	Student Choice	Student Choice
8	Student Choice	Student Choice	Student Choice	Student Choice

Sample Advanced Studies Diploma Four-Year Plan

Class	9 th Grade	10 th Grade	11 th Grade	12 th Grade
1	English 9	English 10	English 11	English 12
2	World History to 1500/World Geography	World History from 1500/World Geography	Virginia and United States History	Virginia and United States Government
3	Earth Science or Environmental Science or Biology	Biology or Chemistry	Chemistry or Physics	Higher-Level Science Elective
4	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Pre-calculus	Higher-Level Mathematics Elective
5	Health and PE 9	Health and PE 10	Visual Arts or Career and Technical Education	Student Choice
6	World Language	World Language	World Language	Student Choice
7	Student Choice	Student Choice	Economics and Personal Finance	Student Choice
8	Student Choice	Student Choice	Student Choice	Student Choice

Stafford Schools Secondary Offerings

Stafford Schools provides opportunities for students to choose challenging and interesting secondary specialty programs based on their learning needs, styles, and preferences. Secondary offerings are aligned with local, regional, and state workforce data.

Stafford Schools provides three types of secondary offerings for our rising high school students that connect with their individual needs, interests, and post-secondary goals. Offerings include:

- **Stafford Specialty Centers** - Each specialty center is a school within one of our high schools that prepares students for careers in a general field with multiple pathways. Specialty centers provide students with a community of like-minded students, specialized coursework, and opportunities for students interested in entering the workforce directly after high school or after some additional schooling and/or training.
- **Stafford Secondary Program Pathways** - Each specialty program is a series of advanced and specialized coursework pathways aimed to deepen student knowledge, skills, and understanding of a particular field of study or career. Secondary offerings include four-year and other program pathways that are one to four years in length.
- **Regional School Programs** - Each regional school offering provides specialized coursework and experiences for students.

Application Process and Selection

The Stafford Secondary Offerings [application system](#) is designed to include parents/guardians in the decision-making process with their students. Parents/Guardians create an account in the online application and work with their child to apply to Specialty Centers, Secondary Program Pathways, and Regional Schools. Students applying for Specialty Centers and Secondary Program Pathways will be selected by a lottery and notified through email and/or text message, based on account settings. Applicants to the Commonwealth Governor's School are selected based on established criteria. Guardians will log back into the application system to review, accept or decline offers. Students who are waitlisted for programs will remain on the waitlist until a space becomes available. Visit Stafford Schools' secondary applications [website](#) to view key application dates and see answers to frequently asked questions.

School Transfers

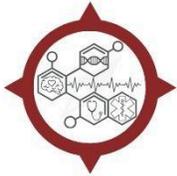
Students that transfer to another school for a secondary program pathway will be able to participate in clubs, activities, and sports at the receiving school based on VHSL eligibility policies. Students whose participation in a secondary program pathway ends or who elect to return to their base school are subject to all VHSL policies regarding eligibility.

EmpowerED Exploration: High School Career Immersion



Career Compass

At the heart of high school career immersion is the Career Compass, a visual representation of the different fields students can explore. The Career Compass features the Stafford Schools logo at the center, surrounded by seven abstract pathways, each leading to an area of immersion represented by a unique color.



HEALTH & MEDICINE

Prepares students for careers in patient care, medical science, and healthcare support services.



BUSINESS, IT, & COMMUNICATIONS

Builds business, technology, and communication skills for careers in corporate, digital, and entrepreneurial fields.



LAW, EDUCATION, & PUBLIC SERVICE

Prepares students for community-focused careers in justice, teaching, social services, and public administration.

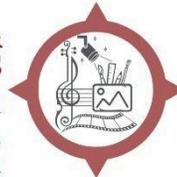


TRANSPORTATION, ENERGY, & OPERATIONS

Explores careers in transportation systems, energy technology, logistics, and industrial operations.

VISUAL & PERFORMING ARTS

Develops creative and technical skills for careers in the arts, entertainment, and media industries.



ENGINEERING & SKILLED TRADES

Introduces students to construction, hands-on technical, and engineering careers using real-world tools and problem-solving.



HOSPITALITY & HUMAN SERVICES

Prepares students for service-oriented careers in culinary arts, tourism, personal care, and community support.



Stafford Specialty Centers



SPECIALTY CENTERS OF STAFFORD COUNTY PUBLIC SCHOOLS

Empowering Minds. Inspiring Futures.

Building upon the continued focus on student experiences that emphasize communication, collaboration, critical thinking, creativity, citizenship, and wellness, Stafford Schools currently offers current 8th graders access to three secondary Specialty Center opportunities housed at the following locations for high school students:

- **Leadership, Education, and Public Service (LEAPS) Center** at Mountain View High School
- **Engineering Professions and Industries of Construction (EPIC) Center** at Stafford High School
- **Community Health and Medical Professions (CHAMP) Center** at Brooke Point High School
- **Business and Information Technology Center** at Colonial Forge High School
- **Aerospace, Supply Chain, Energy, and Navigation Technology (ASCENT) Center** at North Stafford High School
- **Arts, Media, and Production (AMP) Center** at Hartwood High School

Goals

Each Specialty Center's four-year program pathways provide specialized coursework and experiences that prepare students to excel in their post secondary educational journey or careers in high impact employment areas that align with local economic needs. As a result of this specialization, students become a part of a learning community that is built upon shared interests and aspirations. In addition, the educational experiences offered via our Specialty Centers lead to students making informed post-secondary choices and provide the opportunity for them to earn qualifying industry certifications.

Within each Specialty Center students will have the opportunity to customize their learning experience based on their post-secondary plans. Students will be able to explore two main outcomes; industry certification in specialized areas to move directly into the workforce or pre-collegiate specialized coursework to continue their educational pursuits after high school. Beyond these outcomes, all Specialty Center students may engage in work-based learning experiences, develop leadership characteristics, and cultivate an entrepreneurship prowess to monetize the skills learned in coursework.

Specialty Center Implementation Timeline

Stafford Schools is expanding secondary opportunities for all students by opening a Specialty Center in each high school by the 2026-2027 school year.

2024-2025

- Leadership, Education, and Public Service (LEAPS) Center - Mountain View High School
- Engineering Professions and Industries of Construction (EPIC) Center - Stafford High School
- Community Health and Medical Professions (CHAMP) Center - Brooke Point High School

2025-2026

- Business and Information Technology (BIT) Center - Colonial Forge High School

2026-2027

- Aerospace, Supply Chain, Energy, and Navigation Technologies (ASCENT) Center - North Stafford High School

- Arts, Media, and Production (AMP) Center - Hartwood High School

Multiple Student Pathways

Each Specialty Center will offer multiple pathways that provide targeted instruction in specific student interests and career goals. Each center will have pathways for students that intend on entering the workforce immediately after high school or after some college and/or training.

Eligibility Criteria and Selection

All rising 9th graders may apply to Stafford Specialty Centers. Each pathway within each Specialty Center will have minimum criteria. Eligible students that meet the minimum criteria and apply for a Specialty Center will be entered into a pool of candidates for a selection via lottery. The number of seats available within each pathway will vary, but will be established prior to the lottery selection.

School Transfer

Students that are selected and accept an offer to attend one of the specialty centers' four-year pathways will be transferred to the center's school location at the beginning of grade nine. Students will be able to participate in clubs and activities and play sports, based on VHSL eligibility, at their Specialty Center. Students whose participation in a Specialty Center pathway ends will be required to return to their zoned (base) high school unless space is available within another center pathway and are subject to all VHSL policies regarding eligibility.



LEADERSHIP, EDUCATION, AND PUBLIC SERVICE CENTER AT MOUNTAIN VIEW HIGH SCHOOL

Empowering Minds. Inspiring Futures.

Leadership, Education, and Public Service (LEAPS) Center

Location

Mountain View High School

Student Experience

The Leadership, Education, and Public Service (LEAPS) Center at Mountain View High School offers coursework and learning experiences that allows students to explore careers and post secondary education in the following areas:

- Community Service And Advocacy
- Criminal Justice
- Education
- Law
- Leadership

Students enrolled in this Specialty Center will develop an appreciation for the importance of leadership with applications in community and public service. Experiences will develop critical thinking, problem solving, team-building, and interpersonal skills. Students in one of the leadership pathways will complete a capstone project and culminating service-learning activity. The criminal justice, law and Future Educator's Academy pathways provide the opportunity to explore and plan for careers in those fields.

Student Pathways and Eligibility Criteria

The LEAPS Center will have four pathways of study:

- Pathway I: Community Leadership
Minimum Criteria: Eligible for grade 9
- Pathway II: Community Leadership with International Baccalaureate (IB) Programme Diploma
Minimum Criteria: Eligible for grade 9 and successful completion of Algebra I
- Pathway III: Criminal Justice
Minimum Criteria: Eligible for grade 9
- Pathway III: Future Educator's Academy
Minimum Criteria: Eligible for grade 9
- Pathway IV: Law
Minimum Criteria: Eligible for grade 9



Potential Credentials

- Emergency Telecommunicator Certification (ETC) Exam
- Praxis ParaPro

Community Leadership Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	Center English 11	Center English 12
History and Social Sciences	Center World History I	Center World History II	Center Virginia and United States History	Center Virginia and United States Government
Mathematics	Algebra I	Geometry	Algebra II	Algebra III
	Geometry	Algebra II	Pre-calculus	AP OR DE Calculus OR Statistics
Science	Earth Science	Biology	Chemistry	Physics OR Science Elective OR Computer Science
	Biology	Chemistry	Physics	IB Science OR Science Elective OR Computer Science
World Language	World Language I	World Language II	World Language III	World Language IV
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Communication for Leadership	Policy, Advocacy, and Ethics	Leadership and Community Engagement	Community Leadership Capstone
Suggested Elective	Elective	Elective	Economics and Personal Finance	Elective
Elective	N/A	N/A	Elective	Elective

NOTE: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available.

Community Leadership with the IB Diploma Programme Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English (Group 1 Language A)	Center English 9	Center English 10	IB Language and Literature I	IB Language and Literature II
World Language* (Group 2 Language B)	World Language Level I World Language Level II (semester courses)	World Language Level III	IB World Language Acquisition I	IB World Language Acquisition II
	World Language Level II			
History and Social Sciences (Group 3 Individuals and Societies)	Center World History II	AP Comparative Government	IB History of the Americas I	IB History of the Americas II
Science (Group 4 Experimental Science)	Biology	Chemistry	IB Biology I OR IB Chemistry I OR IB Physics I OR IB Environmental Systems and Societies I	IB Biology II OR IB Chemistry II OR IB Physics II OR IB Environmental Systems and Societies II
Mathematics (Group 5 Mathematics)	Geometry	Algebra II	IB Mathematics: Applications and Interpretation I (SL)	IB Mathematics: Applications and Interpretation II (SL)
	Algebra II	Pre-calculus	IB Mathematics: Analysis and Approaches I (HL)	IB Mathematics: Analysis and Approaches II (HL)
Required Electives (Group 6 Electives)	N/A	N/A	IB Elective**	IB Elective**
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Communication for Leadership	Policy, Advocacy, and Ethics	Community advocacy and service requirements of the specialty center included in required IB Diploma Programme coursework	
Suggested Elective	Elective	Elective OR Economics and Personal Finance [†]	IB Theory of Knowledge I	IB Theory of Knowledge II
Elective	N/A	N/A	Elective	Elective

NOTE: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available.

*Electives and World Language courses should be taken in a successive sequence.

**IB Electives include: Art, Theatre, Music, Social and Cultural Anthropology, Computer Science, Psychology, Environmental

Systems and Societies, Economics and Business Management.

[†]Students electing to take IB Art, IB Theatre, or IB Music will complete Economics and Personal Finance independently to provide space for taking art, theatre, or music levels I and II in grades 9 and 10.

Students Seeking to Enroll in Individual IB Courses

Students enrolled at schools offering IB courses may enroll in individual IB courses. Students enrolling in IB courses must complete all assessments embedded throughout the year, and are strongly encouraged to take the end-of-year IB assessment. Students enrolled in the IB Diploma Programme must complete all assessments, including the final assessment.

Future Educators Pathway - Sample Courses

Note: Shaded fields indicate courses required to attain the Associate's Degree.

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	DE English 11	DE English 12
History and Social Sciences	Center World History I	Center World History II	DE Virginia and United States History	DE Virginia and United States Government
Mathematics	Algebra II	Pre-calculus OR DE Pre-calculus I/II	DE Quantitative Reasoning and DE Statistics	Calculus OR Data Science OR AP Computer Science Applications
	Geometry	Algebra II		Pre-calculus OR Data Science OR AP Computer Science Applications
Science	Biology	Chemistry	Physics	DE Biology AND DE Geology
World Language	World Language I	World Language II	World Language III	World Language IV
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Required Electives	Communication for Leadership	Policy, Advocacy, and Ethics	DE Introduction to Teaching as a Profession* AND DE Human Growth and Development	DE Teaching in a Diverse Society* AND DE Foundations of Exceptional Education
Required Electives	Elective	Elective	DE Principles of Public Speaking AND DE Economic Essentials	DE History of Art AND DE World Regional Geography
Elective	N/A	N/A	Elective	Elective

NOTE: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available.

*Requires 40 hours of Practicum experience

Students completing the Future Educators Academy pathway will be offered a letter of intent to teach with Stafford Schools upon completion of their licensure requirements. To be eligible for dual enrolled courses beginning in the junior year, students must have completed Algebra II with a C or higher and have at least a 3.0 cumulative high school GPA.

Criminal Justice Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	English 11	English 12
History and Social Sciences	Center World History I	Center World History II	Virginia and United States History	Virginia and United States Government
Mathematics	Algebra I	Geometry	Algebra II	Algebra III OR DE Quantitative Reasoning and DE Statistics
	Geometry	Algebra II	Pre-calculus OR DE Pre-calculus	AP OR DE Calculus OR Statistics
Science	Earth Science	Biology	Chemistry	Physics OR Science Elective OR Computer Science
	Biology	Chemistry	Physics	IB Science OR Science Elective OR Computer Science
World Language	World Language I	World Language II	World Language III	World Language IV
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Communication for Leadership	Policy, Advocacy, and Ethics	Criminal Justice I	Criminal Justice II (2 credits)
Suggested Elective	Elective	Elective	Emergency Medical Telecommunications	Psychology
Suggested Elective	N/A	N/A	Economics and Personal Finance	N/A

NOTE: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available.

Law Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	AP OR DE English 11	AP OR DE English 12
History and Social Sciences	Center World History I	Center World History II	Virginia and United States History OR DE United States History	Virginia and United States Government OR DE Virginia and United States Government
Mathematics	Algebra I	Geometry	Algebra II	DE Quantitative Reasoning and DE Statistics
	Geometry	Algebra II	Pre-calculus or DE Pre-calculus	AP OR DE Calculus OR Statistics
Science	Biology	Chemistry	Physics	IB OR DE Science OR Science Elective
World Language	World Language I	World Language II	World Language III	World Language IV
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Communication for Leadership	Policy, Advocacy, and Ethics	Law Studies	Criminal Law and Procedures with Capstone (2 credits)
Suggested Elective	Elective	Elective	Psychology	Business Law
Suggested Elective	N/A	N/A	Economics and Personal Finance	N/A

NOTE: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available.



ENGINEERING PROFESSIONS AND INDUSTRIES OF CONSTRUCTION CENTER AT STAFFORD HIGH SCHOOL

Empowering Minds. Inspiring Futures.

Engineering Professions and Industries of Construction (EPIC) Center

Location

Stafford High School

Student Experience

The Engineering Professions and Industries of Construction (EPIC) Center at Stafford High School offers coursework and learning experiences that allows students to explore careers and post secondary education in the following areas:

- Carpentry
- Data Center and Mission Critical Operations
- Electricity
- Engineering
- Fiber Optic Technician
- Heating, Ventilation, Air Conditioning and Refrigeration (HVACR)
- Masonry

Students enrolled in this Specialty Center will have the opportunity to extend their applications of mathematics and science beyond the classroom in innovative and practical spaces. This Specialty Center provides rigorous coursework that strengthens students' critical thinking skills, supports innovation and creativity, and builds entrepreneurial skills. Students may choose to specialize in a construction trade of their choice and complete an internship, earn other relevant certifications, or complete rigorous coursework in preparation to pursue an engineering degree.

Stafford Schools BOOTS Program

Building Trades introduces students to skills in the core areas of residential construction: masonry, carpentry, electricity, drafting, HVAC (heating, ventilation, and air conditioning) and plumbing. Students emphasize safety using Occupational Safety and Health Administration (OSHA) expectations. Students will also learn current residential building codes associated with the trades. The Bringing Occupational Opportunities to Students (BOOTS) program is led by teachers at Stafford High School. The BOOTS program is the only program of its kind in the local area where students design and build houses. BOOTS program prepares students for careers in construction trades.

Potential Credentials

- National Center for Construction Education and Research (NCCER)
- Project Management
- Heavy Equipment Operator
- OSHA 10
- OSHA 30

Student Pathways and Eligibility Criteria

The Engineering Professions and Industries of Construction (EPIC) Center at Stafford High School will have five unique pathways that drive the student's course of study:

- Pathway I: Carpentry



- Minimum Criteria: Eligible for grade 9*

 - Pathway II: Data Center and Mission Critical Operations

Minimum Criteria: Eligible for grade 9
- Pathway III: Electricity

Minimum Criteria: Eligible for grade 9
- Pathway IV: Engineering

Minimum Criteria: Eligible for grade 9 and successful completion of Algebra I
- Pathway V: Fiber Optic Technician

Minimum Criteria: Eligible for grade 9
- Pathway VI: Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR)

Minimum Criteria: Eligible for grade 9
- Pathway VII: Masonry

Minimum Criteria: Eligible for grade 9

Carpentry Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	Center English 11	Center English 12
History and Social Sciences	World History I	World History II	Virginia and United States History	Virginia and United States Government
Mathematics	Center Algebra I	Center Geometry	Algebra, Functions, and Data Analysis OR Algebra II	Algebra II OR Algebra III OR Pre-calculus OR DE Statistical Reasoning and DE Statistics
	Center Geometry	Algebra, Functions, and Data Analysis OR Algebra II	Algebra II OR Pre-calculus	Pre-calculus OR DE Statistical Reasoning and DE Statistics
Science	Environmental Science	Biology	Chemistry OR Science Elective	Chemistry OR Physics OR Earth Science OR Science Elective
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Introduction to Construction Trades	Carpentry I	Carpentry II (2 credits)	Carpentry III (2 credits)
Suggested Elective	Elective	Career Strategies	Economics and Personal Finance	Business Management
Suggested Elective	World Language I	World Language II	World Language III	Elective

NOTES: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available.

Data Center and Mission Critical Operations Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	Center English 11	Center English 12
History and Social Sciences	World History I	World History II	Virginia and United States History	Virginia and United States Government
Mathematics	Center Algebra I	Center Geometry	Algebra, Functions, and Data Analysis OR Algebra II	Algebra II OR Algebra III OR Pre-calculus OR DE Statistical Reasoning and DE Statistics
	Center Geometry	Algebra, Functions, and Data Analysis OR Algebra II	Algebra II OR Pre-calculus	Pre-calculus OR DE Statistical Reasoning and DE Statistics
Science	Environmental Science	Biology	Chemistry OR Science Elective	Chemistry OR Physics OR Earth Science OR Science Elective
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Introduction to Construction Trades	HVACR I	Electronics Systems I	Electronics Systems II
Suggested Elective	Elective	N/A	Economics and Personal Finance	DE Construction Management
Suggested Elective	World Language I	World Language II	World Language III	Business Management OR HVACR II

NOTES: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available. The number of required credits for Specialty Area Elective III and beyond may limit the number of elective course slots.

Electricity Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	Center English 11	Center English 12
History and Social Sciences	World History I	World History II	Virginia and United States History	Virginia and United States Government
Mathematics	Center Algebra I	Center Geometry	Algebra, Functions, and Data Analysis OR Algebra II	Algebra II OR Algebra III OR Pre-calculus OR DE Statistical Reasoning and DE Statistics
	Center Geometry	Algebra, Functions, and Data Analysis OR Algebra II	Algebra II OR Pre-calculus	Pre-calculus OR DE Statistical Reasoning and DE Statistics
Science	Environmental Science	Biology	Chemistry OR Science Elective	Chemistry OR Physics OR Earth Science OR Science Elective
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement Pathway Requirement	Introduction to Construction Trades	Electricity I	Electricity II (2 credits)	Electricity III (2 credits)
Suggested Elective	Elective	N/A	Economics and Personal Finance	DE Construction Management OR Apprenticeship
Suggested Elective	World Language I	World Language II	World Language III	Business Management

NOTES: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available.

Fiber Optic Technician - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9th Grade	10th Grade	11th Grade	12th Grade
English	Center English 9	Center English 10	Center English 11	Center English 12
History and Social Sciences	World History I	World History II	Virginia and United States History	Virginia and United States Government
Mathematics	Center Algebra I	Center Geometry	Algebra, Functions, and Data Analysis OR Algebra II	Algebra II OR Algebra III OR Pre-calculus OR DE Statistical Reasoning and DE Statistics
	Center Geometry	Algebra, Functions, and Data Analysis OR Algebra II	Algebra II OR Pre-calculus	Pre-calculus OR DE Statistical Reasoning and DE Statistics
Science	Environmental Science	Biology	Chemistry OR Science Elective	Chemistry OR Physics OR Earth Science OR Science Elective
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Introduction to Construction Trades	Electronics Systems I	Fiber Optics I	Fiber Optics II (2 credits)
Suggested Elective	Elective	N/A	Economics and Personal Finance	DE Construction Management
Suggested Elective	World Language I	World Language II	World Language III	Business Management

NOTES: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available.

HVACR Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	Center English 11	Center English 12
History and Social Sciences	World History I	World History II	Virginia and United States History	Virginia and United States Government
Mathematics	Center Algebra I	Center Geometry	Algebra, Functions, and Data Analysis OR Algebra II	Algebra II OR Algebra III OR Pre-calculus OR DE Statistical Reasoning and DE Statistics
	Center Geometry	Algebra, Functions, and Data Analysis OR Algebra II	Algebra II OR Pre-calculus	Pre-calculus OR DE Statistical Reasoning and DE Statistics
Science	Environmental Science	Biology	Chemistry OR Science Elective	Chemistry OR Physics OR Earth Science OR Science Elective
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Introduction to Construction Trades	HVACR I	HVACR II (2 credits)	HVACR Capstone (2 credits)
Suggested Elective	Elective	N/A	Economics and Personal Finance	DE Construction Management I AND DE OSHA 30 Construction Safety (1 semester each)
Suggested Elective	World Language I	World Language II	World Language III	Business Management

NOTES: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available.

Masonry Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	Center English 11	Center English 12
History and Social Sciences	World History I	World History II	Virginia and United States History	Virginia and United States Government
Mathematics	Center Algebra I	Center Geometry	Algebra, Functions, and Data Analysis OR Algebra II	Algebra II OR Algebra III OR Pre-calculus OR DE Statistical Reasoning and DE Statistics
	Center Geometry	Algebra, Functions, and Data Analysis OR Algebra II	Algebra II OR Pre-calculus	Pre-calculus OR DE Statistical Reasoning and DE Statistics
Science	Environmental Science	Biology	Chemistry OR Science Elective	Chemistry OR Physics OR Earth Science OR Science Elective
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Introduction to Construction Trades	Masonry I	Masonry II (2 credits)	Masonry III (2 credits)
Suggested Elective	Elective	Career Strategies	Economics and Personal Finance	Business Management
Suggested Elective	World Language I	World Language II	World Language III	Elective

NOTES: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available.

Engineering Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Honors English 9	Honors English 10	AP OR DE English 11	AP OR DE English 12
History and Social Sciences	Honors World History I	Honors World History II	AP OR DE Virginia and United States History	AP OR DE Virginia and United States Government
Mathematics	Center Algebra II	Center Geometry	DE Pre-calculus	DE Calculus I/II
		DE Pre-calculus	DE Calculus I/II	DE Linear Algebra and DE Differential Equations
Science	Honors Biology	Honors Chemistry OR Honors Earth Science	AP OR DE Physics	DE Chemistry
World Language	World Language I	World Language II	World Language III	AP OR DE World Language IV
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Engineering Explorations	Engineering Analysis and Applications	Engineering Concepts and Processes	DE Foundations of Engineering AND DE Engineering Design
Suggested/ Required Elective	Elective	Elective	Economics and Personal Finance	DE Computer Engineering and Capstone Project
Elective	N/A	N/A	Elective	Elective

NOTE: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available.



COMMUNITY HEALTH AND MEDICAL PROFESSIONS CENTER AT BROOKE POINT HIGH SCHOOL

Empowering Minds. Inspiring Futures.

Community Health and Medical Professions (CHAMP) Center

Location

Brooke Point High School

Student Experience

The Community Health and Medical Professions (CHAMP) Center offers coursework and learning experiences that prepare students for careers including those in the following areas:

- Medical Doctor
- Nurse - Certified Nurse Aide, Licensed Practical Nurse, Registered Nurse, Nurse Practitioner
- Medical Assistant
- Physician Assistant
- Mental Health Professional

Students enrolled in this Specialty Center will have the opportunity to extend their applications of mathematics and science beyond the classroom in innovative and practical spaces within four pathways. This center provides rigorous coursework that strengthens students' critical thinking skills, supports innovation and creativity, and builds entrepreneurial skills. Students may choose to specialize in a healthcare pathway of their choice and complete an internship and or a clinical experience, earn other relevant certifications, or complete rigorous coursework in preparation to pursue a career in a healthcare field. Students selected for the nursing pathway will choose to further specialize during grade 9 Biomedical.

Potential Credentials

- Certified Nurse Aide (C.N.A.) Examination
- Mental Health Technician Certification (MHTC)
- Certified Clinical Medical Assistant (CCMA)

Student Pathways and Eligibility Criteria

The Community Health and Medical Professions Center at Brooke Point High School will have four unique pathways that drive the student's course of study.



- Pathway I: Biomedical Sciences (Formally a Governor's STEM Academy)
Minimum Criteria: Eligible for grade 9 and successful completion of Algebra I
- Pathway II: Nursing
Minimum Criteria: Eligible for grade 9
- Pathway III: Medical Assistant
Minimum Criteria: Eligible for grade 9
- Pathway IV: Mental Health Services
Minimum Criteria: Eligible for grade 9

Biomedical Sciences Pathway (Formally a Governor's STEM Academy) - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center Honors English 9 OR Center English 9	Center Honors English 10 OR Center English 10	English 11 OR AP English Language and Composition OR DE English Composition	English 12 OR AP Literature and Composition OR DE English Literature
History and Social Sciences	Honors World History I OR World History I	Honors World History II OR World History I	AP OR DE Virginia and United States History	AP OR DE Virginia and United States Government
Mathematics	Center Honors Geometry OR Center Geometry	Center Honors Algebra II OR Center Algebra II	AP OR DE Pre-calculus	AP Calculus OR AP Statistics OR DE Calculus
Science	Center Biology	Center Chemistry	AP Biology OR DE Biology OR Biology II: Human Anatomy and Physiology	AP OR DE Physics
World Language	World Language I	World Language II	World Language III	DE World Language IV
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Principles of Biomedical Science	Human Body Systems	Medical Interventions	Biomedical Innovation Capstone
Suggested Elective	Elective	Economics and Personal Finance	AP Seminar	AP Research
Elective	N/A	N/A	Elective	Elective

NOTE: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available. Project Lead the Way courses included in this sequence receive additional weighting.

Nursing Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	English 11	English 12
History and Social Sciences	World History I	World History II	Virginia and United States History	Virginia and United States Government
Mathematics	Algebra I	Center Geometry	Center Algebra II	Pre-calculus OR AP Calculus OR AP Statistics OR DE Quantitative Reasoning and DE Statistics
	Center Geometry	Center Algebra II	Pre-calculus	
Science	Center Biology	Center Biology II: Anatomy and Physiology	Chemistry	Physics
		Center Chemistry	Physics OR DE Physics	Biology II: Anatomy and Physiology
World Language	World Language I	World Language II	World Language III	World Language IV OR DE World Language IV
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Introduction to Health and Medical Sciences	Health Informatics	Communication and Leadership for Medical Professionals	Nurse Aide
				Career Strategies
Suggested Elective	Elective	Elective	Economics and Personal Finance	Elective

NOTE: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available. This pathway enables students to become a Certified Nurse Assistant upon high school graduation. Students may choose to continue their studies to become a Licensed Practical Nurse (LPN) with one additional year through a community college. Students may choose to continue their studies at a 4 year institute to earn their Registered Nurse (RN) or Bachelor's of Science in Nursing (BSN).

Medical Assistant Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	English 11	English 12
History and Social Sciences	World History I	World History II	Virginia and United States History	Virginia and United States Government
Mathematics	Algebra I	Geometry	Algebra II	Pre-calculus OR AP Calculus OR AP Statistics OR DE Quantitative Reasoning and DE Statistics
	Geometry	Algebra II	Pre-calculus	
Science	Center Biology	Center Biology II: Anatomy and Physiology	Chemistry	Physics
		Center Chemistry	Physics OR DE Physics	Biology II: Anatomy and Physiology
World Language	World Language I	World Language II	World Language III	N/A
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Introduction to Health and Medical Sciences	Health Informatics	Communication and Leadership for Medical Professionals	Medical Assistant I (2 credits) AND Medical Assistant II (2 credits)
Suggested Elective	Elective	Elective	Economics and Personal Finance	N/A

NOTE: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available. This pathway enables students to become a Medical Assistant upon high school graduation. Students may choose to continue their studies to become a Licensed Practical Nurse (LPN) or attend a 4 year institute to earn their Registered Nurse (RN) or Bachelor's of Science in Nursing (BSN).

Mental Health Services Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9 Honors	Center English 10 Honors	English 11	English 12
History and Social Sciences	World History I	World History II	Virginia and United States History	Virginia and United States Government
Mathematics	Algebra I	Geometry	Algebra II	AP OR DE Pre-calculus OR DE Quantitative Reasoning and DE Statistics
	Geometry	Algebra II	AP OR DE Pre-calculus	AP OR DE Calculus OR AP Statistics
Science	Center Biology	Center Biology II: Anatomy and Physiology	Chemistry	Physics
		Center Chemistry	Physics OR DE Physics	Biology II: Anatomy and Physiology
World Language	World Language I	World Language II	World Language III	World Language IV
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Introduction to Health and Medical Sciences	Health Informatics	Mental Health Assisting Careers I (2 credits)	Mental Health Assisting Careers II (2 credits)
Suggested/Required Elective	Elective	Elective	Economics and Personal Finance	DE Psychology
Suggested Elective	N/A	N/A	N/A	Sociology

NOTE: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available.



BUSINESS AND INFORMATION TECHNOLOGY CENTER AT COLONIAL FORGE HIGH SCHOOL

Empowering Minds. Inspiring Futures.

Business and Information Technology (BIT) Center

Location

Colonial Forge High School

Student Experience

The Center offers coursework and learning experiences that prepare students for careers including those in the following areas:

- Business Administration
- Information Technology
- Data Analytics
- Cybersecurity
- Database Management
- Business Ownership

Students enrolled in this Specialty Center will have the opportunity to extend their applications of business and information technology (IT) beyond the classroom in innovative and practical spaces within five pathways. This center provides rigorous coursework that strengthens students' critical thinking skills, supports innovation and creativity, and builds entrepreneurial skills. Students may choose to specialize in a business or IT pathway of their choice and complete an internship, earn other relevant certifications, or complete rigorous coursework in preparation to pursue a degree in the business or IT fields.

Potential Credentials

- SecurityPro
- CompTIA Network+
- CompTIA Security+

Student Pathways and Eligibility Criteria

The Center at Colonial Forge High School will have five unique pathways that drive the student's course of study.

- Pathway I: Business Administration
Minimum Criteria: Eligible for grade 9
- Pathway II: Entrepreneurship
Minimum Criteria: Eligible for grade 9
- Pathway III: Cybersecurity
Minimum Criteria: Eligible for grade 9
- Pathway IV: Business Information Technology
Minimum Criteria: Eligible for grade 9
- Pathway V: Data Analytics
Minimum Criteria: Eligible for grade 9



Entrepreneurship Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	English 11	English 12
History and Social Sciences	World History I	World History II	Virginia and United States History	Virginia and United States Government
Mathematics	Algebra I	Geometry	Algebra, Functions, and Data Analysis OR Algebra II	Algebra II OR Algebra III OR Pre-calculus OR DE Quantitative Reasoning and DE Statistics
	Geometry	Algebra, Functions, and Data Analysis OR Algebra II	Algebra II OR Pre-calculus	Pre-calculus OR DE Quantitative Reasoning and DE Statistics
Science	Environmental Science	Biology	Chemistry OR Science Elective	Chemistry OR Physics OR Science Elective
World Language	World Language I	World Language II	World Language III	World Language IV
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Principles of Business and Marketing	Digital and Social Media Marketing	Entrepreneurship OR DE Entrepreneurship	Entrepreneurship Advanced OR DE Entrepreneurship Advanced
Suggested Elective	Elective	Elective	Accounting I	Data Science
Suggested Elective	N/A	N/A	Economics and Personal Finance	DE Business Management

Business Administration Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	DE English 11	DE English 12
History and Social Sciences	World History I	World History II	DE Virginia and United States History	DE Virginia and United States Government
Mathematics	Algebra I	Geometry	Algebra II	Pre-calculus OR DE Pre-calculus OR DE Quantitative Reasoning and DE Statistics
	Geometry	Algebra II	Pre-calculus or DE Pre-calculus	Calculus OR DE Calculus OR AP Statistics
Science	Environmental Science	Biology	Chemistry OR Physics	DE Biology OR Science Elective
World Language	World Language I	World Language II	World Language III	World Language IV OR DE World Language
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Principles of Business and Marketing	Communication for Leadership	DE Business Management	DE International Business
Required Elective	N/A	N/A	Accounting I	AP Economics
Suggested Elective	Elective	Elective	Elective	Accounting II

Cybersecurity Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	English 11	English 12
History and Social Sciences	World History I	World History II	Virginia and United States History	Virginia and United States Government
Mathematics	Algebra I	Geometry	Algebra II	Algebra III OR Pre-calculus OR DE Quantitative Reasoning and DE Statistics
	Geometry	Algebra II	Pre-calculus OR DE Quantitative Reasoning and DE Statistics	Calculus OR DE Calculus OR AP Statistics
Science	Environmental Science	Biology	Chemistry OR Physics	Chemistry OR Physics OR Science Elective
World Language	World Language I	World Language II	World Language III	World Language IV OR DE World Language
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Information Technology Fundamentals	Cybersecurity I	Cybersecurity II	Cybersecurity III
Suggested Elective	N/A	N/A	Programming I	Programming II
Suggested Elective	N/A	N/A	Economics and Personal Finance	Data Science

Business Information Technology (BIT) Pathway (Formerly Governor’s STEM Academy) - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	English 11 OR DE English 11	English 12 OR DE English 12
History and Social Sciences	World History I	World History II	Virginia and United States History OR DE Virginia and United States History	Virginia and United States Government OR DE Virginia and United States Government
Mathematics	Algebra I	Geometry	Algebra II	Pre-calculus OR DE Pre-calculus OR DE Quantitative Reasoning and DE Statistics
	Geometry	Algebra II	Pre-calculus OR DE Pre-Calculus OR DE Quantitative Reasoning and DE Statistics	Pre-calculus OR DE Pre-calculus OR DE Calculus
Science	Environmental Science	Biology	Chemistry OR Physics	DE Biology OR Science Elective
World Language	World Language I	World Language II	World Language III	World Language IV OR DE World Language
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Information Technology Fundamentals	Database Design and Management	DE Business Management	DE Programming
Required Elective	N/A	N/A	Programming I	BIT Project Management Capstone
Suggested Elective	Elective	Elective	Economics and Personal Finance	Accounting I

Data Analytics Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	English 11 OR DE English 11	English 12 OR DE English 12
History and Social Sciences	World History I	World History II	Virginia and United States History OR DE Virginia and United States History	Virginia and United States Government OR DE Virginia and United States Government
Mathematics	Algebra I	Geometry	Algebra II	Data Science OR Pre-calculus OR DE Quantitative Reasoning and DE Statistics
	Geometry	Algebra II	Pre-calculus or DE Pre-calculus	Calculus OR DE Calculus
Science	Environmental Science	Biology	Chemistry OR Physics	DE Biology OR Science Elective
World Language	World Language I	World Language II	World Language III	World Language IV OR DE World Language
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Information Technology Fundamentals	Database Design and Management	Database Design and Management with PL/SQL (Oracle)	AI and Machine Learning Capstone
Suggested Elective	N/A	N/A	Programming I	Programming II
Suggested Elective	Elective	Elective	Economics and Personal Finance	Accounting I



AEROSPACE, SUPPLY CHAIN, ENERGY, AND NAVIGATION TECHNOLOGIES CENTER AT NORTH STAFFORD HIGH SCHOOL

Empowering Minds. Inspiring Futures.

Aerospace, Supply Chain, Energy, and Navigation Technologies (ASCENT) Center

Location

North Stafford High School

Student Experience

The Center offers coursework and learning experiences that prepare students for careers including those in the following areas:

- Aerospace Engineering
- Aerospace Technology
- Unmanned Aviation
- Geospatial Technology
- Logistics
- Supply Chain Management and Operations
- Sustainable Energy

Students at this specialty center will have a unique opportunity to explore the exciting and rapidly evolving fields of **aerospace, geospatial, logistics, and sustainable technologies**. The curriculum is designed to provide rigorous coursework and real-world applications that will strengthen critical thinking, problem-solving, and innovation skills. Each pathway offers a blend of theoretical knowledge and hands-on learning, including the potential for industry certifications, internships, and capstone projects. This program will prepare students to pursue a wide range of degrees and careers in these high-demand fields.

Potential Credentials

- FAA Part 107 License
- GIS Fundamentals Foundation
- Certified Logistics Associate
- Certified Logistics Technician 4.0
- Energy Industry Fundamentals Certificate

Student Pathways and Eligibility Criteria

The Center at North Stafford High School will have five unique pathways that drive the student's course of study.



- Pathway I: Aerospace and Advanced Air Mobility
Minimum Criteria: Eligible for grade 9 and successful completion of Algebra I
- Pathway II: Geospatial Technologies
Minimum Criteria: Eligible for grade 9
- Pathway III: Global Logistics and Supply Chain Management
Minimum Criteria: Eligible for grade 9
- Pathway IV: Sustainable Energy Systems
Minimum Criteria: Eligible for grade 9

Aerospace and Advanced Air Mobility Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	English 11 OR DE English 11	English 12 OR DE English 12
History and Social Sciences	Center World History I	Center World History II	Virginia and United States History OR DE Virginia and United States History	Virginia and United States Government OR DE Virginia and United States Government
Mathematics		Geometry	Pre-calculus OR DE Pre-calculus	AP OR DE Calculus
	Center Algebra II	AP OR DE Pre-calculus	DE Calculus	DE Linear Algebra and DE Differential Equations
Science	Biology	Center Physics	Chemistry OR DE Chemistry	DE Physics
World Language	World Language I	World Language II	World Language III	World Language IV OR DE World Language IV
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Geosystems	Aerospace Engineering Technology (2 credits)	Aerospace Engineering Analysis and Application (2 credits)	Unmanned Aircraft Systems Advanced AND Capstone
Suggested Elective	Elective	N/A	N/A	N/A
Suggested Elective	N/A	N/A	Economics and Personal Finance	Elective

NOTE: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, or dual enrollment courses, if available.

Geospatial Technologies Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	English 11	English 12
History and Social Sciences	Center World History I	Center World History II	Virginia and United States History	Virginia and United States Government
Mathematics	Algebra I	Geometry	Algebra II	DE Quantitative Reasoning and DE Statistics
	Geometry	Algebra II	DE Quantitative Reasoning and DE Statistics	Pre-calculus OR AP Pre-calculus OR DE Pre-calculus
Science	Center Environmental Science	Biology	Chemistry OR DE Chemistry	Physics OR DE Physics
World Language	World Language I	World Language II	World Language III	World Language IV
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Geosystems	Geospatial Technology I	Geospatial Technology II	Applied Geospatial Analytics & Project Management Capstone
Suggested Elective	Elective	Elective	Python Programming	
Suggested Elective	N/A	N/A	Economics and Personal Finance	Elective

NOTE: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available.

Global Logistics and Supply Chain Management Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	English 11	English 12
History and Social Sciences	Center World History I	Center World History II	Virginia and United States History	Virginia and United States Government
Mathematics	Algebra I	Geometry	Algebra II	DE Quantitative Reasoning and DE Statistics
	Geometry	Algebra II	DE Quantitative Reasoning and DE Statistics	Pre-calculus OR AP Pre-calculus OR DE Pre-calculus
Science	Center Environmental Science	Biology	Chemistry OR DE Chemistry	Physics OR DE Physics
World Language	World Language I	World Language II	World Language III	World Language IV OR DE World Language IV
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Geosystems	Global Logistics and Enterprise Systems I	Global Logistics and Enterprise Systems II	Supply Chain Operations and Innovation Capstone
Suggested Elective	Elective	Elective	Python Programming	Elective
Suggested Elective	N/A	N/A	Economics and Personal Finance	Elective

NOTE: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available.

Sustainable Energy Systems Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	English 11 OR DE English 11	English 12 OR DE English 12
History and Social Sciences	Center World History I	Center World History II	Virginia and United States History OR DE Virginia and United States History	Virginia and United States Government OR DE Virginia and United States Government
Mathematics	Algebra I	Geometry	Algebra II	DE Quantitative Reasoning and DE Statistics
	Geometry	Algebra II	DE Quantitative Reasoning and DE Statistics	AP Pre-calculus OR DE Pre-calculus
Science	Center Environmental Science	Biology	Chemistry OR DE Chemistry	Physics OR DE Physics
World Language	World Language I	World Language II	World Language III	World Language IV OR DE World Language IV
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	Geosystems	Sustainable and Renewable Technologies	Renewable Energy	Energy and Power Capstone
Suggested Elective	Elective	Elective	Economics and Personal Finance	Elective
Suggested Elective	N/A	N/A		Elective

NOTE: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available.



ARTS, MEDIA, AND PRODUCTION CENTER AT HARTWOOD HIGH SCHOOL

Empowering Minds. Inspiring Futures.

Arts, Media, and Production (AMP) Center

Location

Hartwood High School

Student Experience

The Center offers coursework and learning experiences that prepare students for careers including those in the following areas:

- Digital Content Creator
- Audio and Video Technician
- Audio or Music Engineer
- Music Production
- Graphic Design
- Live Event Manager
- Visual Artist

Students enrolled in this Specialty Center will immerse themselves in the dynamic world of creative arts, digital media, music and audio engineering, and live event production. This program provides hands-on, project-based learning that will hone students' artistic talents and technical skills. The curriculum is designed to foster innovation, strengthen collaborative skills, and build a strong foundation for a career in the creative industries. Students will explore pathways in Live Event Management, Digital Content Creation, Music Production and Audio Engineering or Visual Arts, allowing them to specialize in areas of interest. Through a combination of rigorous coursework, professional internships, and capstone projects, students will be prepared to pursue a wide array of degrees and careers in the arts and media fields.

Potential Credentials

- Adobe Certified Professional
- Autodesk Certified Professional
- Digital Video Editor
- Avid Certified Professional
- Avid Certified Specialist

Student Pathways and Eligibility Criteria

The Center at Hartwood High School will have five unique pathways that drive the student's course of study.



- Pathway I: Digital Content Production
Minimum Criteria: Eligible for grade 9
- Pathway II: Live Event Management
Minimum Criteria: Eligible for grade 9
- Pathway III: Audio Engineering and Production
Minimum Criteria: Eligible for grade 9
- Pathway IV: Visual Arts
Minimum Criteria: Eligible for grade 9

Digital Content Production Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	English 11 OR DE English 11	English 12 OR DE English 12
History and Social Sciences	Center World History I	Center World History II	Virginia and United States History OR DE Virginia and United States History	Virginia and United States Government OR DE Virginia and United States Government
Mathematics	Algebra I	Geometry	Algebra II	Pre-calculus OR DE Pre-calculus OR DE Quantitative Reasoning and DE Statistics
	Geometry	Algebra II	DE Quantitative Reasoning and DE Statistics OR Pre-calculus OR DE Pre-calculus	AP Calculus OR DE Calculus
Science	Environmental Science OR Biology	Biology OR Chemistry	Chemistry OR Physics	DE Environmental Science OR Science Elective
World Language	World Language I	World Language II	World Language III	World Language IV OR DE World Language IV
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	The Arts, Culture, and Society	Introduction to Digital Content and Communications	Animation and Digital Content Creation	Video and Media Technology with Capstone
Suggested Elective	Elective	Elective	Digital and Social Media Marketing	Elective
Suggested Elective	N/A	N/A	Economics and Personal Finance	Elective

NOTE: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, or dual enrollment courses, if available.

Live Event Management Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	English 11 OR DE English 11	English 12 OR DE English 12
History and Social Sciences	Center World History I	Center World History II	Virginia and United States History OR DE Virginia and United States History	Virginia and United States Government OR DE Virginia and United States Government
Mathematics	Algebra I	Geometry	Algebra II	Pre-calculus OR DE Pre-calculus OR DE Quantitative Reasoning and DE Statistics
	Geometry	Algebra II	DE Quantitative Reasoning and DE Statistics OR Pre-calculus OR DE Pre-calculus	AP Calculus OR DE Calculus
Science	Environmental Science OR Biology	Biology OR Chemistry	Chemistry OR Physics	DE Environmental Science OR Science Elective
World Language	World Language I	World Language II	World Language III	World Language IV OR DE World Language IV
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	The Arts, Culture, and Society	Introduction to Live Production and Safety	Technical Production and Systems	Live Event and Project Management with Capstone
Suggested Elective	Elective	Elective	Elective	Elective
Suggested Elective	N/A	N/A	Economics and Personal Finance	Elective

NOTE: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, or dual enrollment courses if available.

Audio Production and Engineering Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	English 11 OR DE English 11	English 12 OR DE English 12
History and Social Sciences	Center World History I	Center World History II	Virginia and United States History OR DE Virginia and United States History	Virginia and United States Government OR DE Virginia and United States Government
Mathematics	Algebra I	Geometry	Algebra II	Pre-calculus OR DE Pre-calculus OR DE Quantitative Reasoning and DE Statistics
	Geometry	Algebra II	DE Quantitative Reasoning and DE Statistics OR Pre-calculus OR DE Pre-calculus	AP Calculus OR DE Calculus
Science	Environmental Science OR Biology	Biology OR Chemistry	Chemistry OR Physics	DE Environmental Science OR Science Elective
World Language	World Language I	World Language II	World Language III	World Language IV OR DE World Language IV
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	The Arts, Culture, and Society	MIDI and Music Production Fundamentals	Audio Production and Recording I	Audio Production and Recording II with Capstone
Required Elective	N/A	Music Theory	Elective	Elective
Elective	Elective	N/A	Economics and Personal Finance	Elective

NOTE: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, or dual enrollment if available.

Visual Arts Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Center English 9	Center English 10	English 11 OR DE English 11	English 12 OR DE English 12
History and Social Sciences	Center World History I	Center World History II	Virginia and United States History OR DE Virginia and United States History	Virginia and United States Government OR DE Virginia and United States Government
Mathematics	Algebra I	Geometry	Algebra II	Pre-calculus OR DE Pre-calculus OR DE Quantitative Reasoning and DE Statistics
	Geometry	Algebra II	DE Quantitative Reasoning and DE Statistics OR Pre-calculus OR DE Pre-calculus	AP Calculus OR DE Calculus
Science	Environmental Science OR Biology	Biology OR Chemistry	Chemistry OR Physics	DE Environmental Science OR Science Elective
World Language	World Language I	World Language II	World Language III	World Language IV OR DE World Language IV
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Pathway Requirement	The Arts, Culture, and Society	Foundations of Visual Art and Design	2D and 3D Studio Arts	Digital Arts and Graphic Design with Capstone
Elective	Elective	Elective	Elective	Elective
Suggested Elective	N/A	N/A	Economics and Personal Finance	Elective

NOTE: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, or dual enrollment courses if available.

Stafford Secondary Program Pathways

Stafford Schools secondary program pathways that provide a series of advanced and specialized coursework aimed to deepen student knowledge, skills, and understanding of a particular field of study or career. Depending upon the program pathway of choice, students may also obtain relevant certifications that serve local and regional economic needs. Program pathways offer a one-, two-, or four-year program of study.

Eligibility Criteria and Selection

Students may apply to Stafford Secondary Program Pathways, however, each program pathway may have a unique set of minimum eligibility criteria. Eligible students that meet the minimum criteria and apply for a specialty program pathway will be entered into a pool of candidates for selection via lottery system. The number of seats available within each program may vary based on local factors and state and federal requirements, but will be established prior to lottery selection.

School Transfer and Mid-Day Travel

Rising 9th and 10th grade students that accept a seat within a secondary program pathway will be transferred to the program pathway's school location while enrolled in the program. All rising 11th and 12th grade students beginning a new program pathway are given the option to travel (during the school day) or transfer (for the remainder of high school) to the school housing the program pathway. Students accepting pathways that are designed to meet the requirements of an Associate's Degree will be required to transfer to the offering school. If multiple program locations exist, placement will be based on location of residence (not based on the zoned high school). Virginia High School League eligibility is established in grade 9. Any subsequent transfers may affect eligibility per Virginia High School League policy.

Four-Year Program Pathway

- **International Baccalaureate (IB) Diploma Programme at MVHS** is a rigorous pre-university course of study in the last two years of high school that focuses on developing the student as a whole by emphasizing ten Learner Profile traits: IB learners strive to be inquirers, knowledgeable, thinkers, communicators, principled, open-minded, caring, risk-takers, balanced, and reflective.

International Baccalaureate Diploma Programme

Location

Mountain View High School

Student Experience

Those seeking the full International Baccalaureate (IB) Programme Diploma will experience a curriculum designed to support the development of a global mindset coupled with rigorous coursework that is recognized around the world. Upon completing the curriculum requirements, students will have the opportunity to receive the IB Diploma and their high school diploma. Students that wish to exit the IB Diploma Programme pathway will return to their zoned high school. To earn the full IB Diploma, students must take examinations at the completion of each IB course. The associated exam fees are determined by the International Baccalaureate Organization (IBO) annually.

Eligibility Criteria

This program is open to students that successfully complete Algebra I prior to grade 9 and are eligible for grade 9 at a Stafford high school.

IB Diploma Programme Pathway - Sample Course Sequence

	LAUNCH	LEARN		LEAD
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English (Group 1 Language A)	Honors English 9	Honors English 10	IB Language and Literature I	IB Language and Literature II
World Language* (Group 2 Language B)	World Language Level I World Language Level II (semester courses) ----- World Language Level II	World Language Level III	IB World Language Acquisition I	IB World Language Acquisition II
History and Social Sciences (Group 3 Individuals and Societies)	Honors World History I OR Honors World History II	AP Comparative Government OR DE United States Government	IB History of the Americas I	IB History of the Americas II
Science (Group 4 Experimental Science)	Honors Biology	Honors Chemistry	IB Biology I OR IB Chemistry I OR IB Physics I OR IB Environmental Systems and Societies I	IB Biology II OR IB Chemistry II OR IB Physics II OR IB Environmental Systems and Societies II
Mathematics (Group 5 Mathematics)	Honors Geometry	Honors Algebra II	IB Mathematics: Applications and Interpretation I	IB Mathematics: Applications and Interpretation II
	Honors Algebra II	AP Pre-calculus OR DE Pre-calculus	IB Mathematics: Analysis and Approaches I	IB Mathematics: Analysis and Approaches II
Required Electives (Group 6 Electives)	N/A	N/A	IB Elective**	IB Elective**
Health and Physical Education	Health and Physical Education 9	Health and Physical Education 10	N/A	N/A
Suggested Elective	Elective	Elective [†] OR Economics and Personal Finance	IB Theory of Knowledge I	IB Theory of Knowledge II
Elective	N/A	N/A	Elective	Elective

NOTE: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available.

*Electives and World Language courses should be taken in a successive sequence.

**IB Electives include: Art, Theatre, Music, Social and Cultural Anthropology, Computer Science, Psychology, Environmental Systems and Societies, Economics and Business Management.

[†]Students electing to take IB Art, IB Theatre, or IB Music will need to complete art, theatre, or music levels I and II in grades 9 and 10.

Two-year Program Pathways



Associate of Science (A.S.) Degree in Science at NSHS and SHS is a two-year college degree that provides education and training beyond high school. It can prepare students for entry into a career field or serve as the first half of a bachelor's degree program, with credits that generally transfer to a four-year college or university. The A.S. Science degree through Germanna Community College prepares students for success in STEM fields.



Automotive Technology at BPHS and NSHS is a program with mastery of each task including the four primary ASE certified areas: Brakes, Steering and Suspension, Electrical/Electronics and light duty vehicle repair. This program is accredited by the The Board of the National Institute for Automotive Service Excellence (ASE).



Barbering at MVHS only and Cosmetology at MVHS and SHS prepares students for certification through the Virginia Board of Barbers/Cosmetology. Coursework includes mannequin- and live-model work, safety, sterilization, sanitation, bacteriology, effective communication, and management.



Carpentry at SHS prepares students with skills leading to careers in the construction industry and/or post-secondary education. Students learn the principles and technologies in commercial and residential construction. In addition, students develop leadership skills and may compete in the SkillsUSA program and the Bringing Occupational Opportunities To Schools (BOOTS) program.



Collision Repair Technology at NSHS is a program with mastery of each task including: collision and repair, painting and refinishing. This program is accredited by the The Board of the National Institute for Automotive Service Excellence (ASE).



Criminal Justice at MVHS highlights occupations within the criminal justice system. Through understanding the rule of law and exploring policy, students will examine evidence, techniques of investigation, report writing, and courtroom procedures.



Culinary Arts at BPHS, MVHS, and SHS is a program designed to prepare students for college and careers in the food service industry. Students may participate in immersive work based learning including operating in school cafes and a mobile food trailer.



Drafting at SHS is a program through which students delve into drafting as a potential STEM career, learning the essential theories and skills needed for success. They develop technical abilities required to create precise manufacturing and construction drawings from concepts and sketches provided by engineers, architects, and designers.



Early Childhood Education at BPHS and NSHS prepares students for employment or continued education in the field of childcare and early childhood education. The Early Childhood program builds skills through integrated learning experiences centered around opportunities for student engagement with concrete materials and exploration.



Electricity at SHS prepares students to develop skills in the installation, operation, maintenance, and repair of residential, commercial, and industrial electrical systems that prepare them for real-world work environments. In addition, students develop leadership skills and may compete in the SkillsUSA program and the Bringing Occupational Opportunities To Schools (BOOTS) program.



Future Educators Academy at MVHS is a Virginia College Partnership Laboratory School that lets students earn a full associate degree through dual enrollment and step straight onto a fast track to teacher licensure. FEA features specialized transfer agreements with four-year institutions across the Commonwealth so students can finish their bachelor's and earn a teaching license in as little as two years after high school graduation.



Heating, Ventilation, Air Conditioning, and Refrigeration at SHS prepares students to professionally install, repair, and maintain the operating conditions of heating, ventilation, air-conditioning, and refrigeration (HVACR) systems. Students work with piping and tubing, study the principles of heat and electricity, install duct systems, and comply with U.S. Environmental Protection Agency (EPA) regulations. Successful completion of the two-course sequence may prepare students for a career as an HVACR technician.



Masonry at SHS prepares students through hands-on training in a program lab outfitted with laser levels, mortar mixers, masonry saws and other industry-standard equipment. Masonry, also known as brick or stone work, develops technical knowledge for laying block and brick, concrete construction, and reading blueprints. In addition, students develop leadership skills and may compete in the SkillsUSA program and the Bringing Occupational Opportunities To Schools (BOOTS) program



Medical Assistant at BPHS prepares students to develop basic skills and techniques to assist the physician and/or other medical professionals in patient examinations, basic emergency care, simple laboratory tests, preparation for minor surgical procedures, and administrative duties.



Paramedic Prep at CFHS and SHS prepares students for a career as a paramedic by completing the Firefighting and EMT programs along with the required certifications. Successful completion of this sequence equips students to enter the emergency public service industry and positions them well for pursuing paramedic certification.

One-year Program Pathways



Emergency Medical Technician (EMT) at CFHS and SHS is a program that prepares students for a variety of careers and advanced coursework in the healthcare field including service as a paramedic. Students will have the opportunity to earn their EMT certification and continuing education hours required for recertification.



Firefighting is offered to students at each high school and located at Stafford Fire and Rescue. This high school program is offered through a partnership with Stafford County Fire and Rescue. Firefighting prepares students in the professional standards necessary to successfully fight live fires, address hazardous-materials incidents, and conduct search-and-rescue operations.



Nurse Aide at BPHS is an introduction to the nursing career field. This course is approved by the State Board of Nursing and may qualify the student for participation in Virginia Nurse Aide Competency Evaluation Program (required for certification).

Associate of Science (A.S.) Degree in Science

Locations

North Stafford High School
Stafford High School

Student Experience

The Associates degree program integrates courses meeting general education requirements at universities, emphasizing analytical and data-driven analyses in math and science. Hands-on lab experiences are integral, ensuring students acquire essential lab procedures and skills for success in upper-level science courses post-transfer.

Eligibility Criteria

This program is open to students with at least a 3.0 GPA who have already completed Algebra II with a C or higher.

A.S. Degree in Science Courses

	LEARN	LEAD
	11 th Grade	12 th Grade
Program Requirements	DE English 11 (6 college credits)	DE English 12 (3 college credits)
	DE United States and Virginia History (6 college credits)	DE United States Government and DE State and Local Politics (6 college credits)
	DE Pre-calculus (6 college credits) OR DE Calculus (6 college credits)	DE Calculus (6 college credits) OR DE Linear Algebra and DE Differential Equations (6 college credits)
	DE Biology (8 college credits) OR DE Physics (8 college credits)	DE Biology (8 college credits) OR DE Chemistry (8 college credits)
	DE Art History (6 college credits)	DE Principles of Public Speaking (3 college credits) AND DE Introduction to Digital and Information Literacy (3 college credits)

College Success Skills (SDV100 1 credit) - Typically taken between 10th and 11th grade.

Automotive Technology

Locations

Brooke Point High School
North Stafford High School

Student Experience

Students learn all aspects of repair, safety, and customer service. Automotive Technology skills provide students experience in diagnostics, adjustment, and repair of automotive vehicles. Students will continue to master skills

related to suspension and steering, brakes, electrical/ electronic systems, and engine performance by operating as automotive shop technicians.

Potential Credentials

- Automotive Service Excellence (ASE) Certification

Eligibility Criteria and Selection

The program is open to rising 11th grade students.

Automotive Technology Courses

	LEARN	LEAD
	11 th Grade	12 th Grade
Program Requirement	Automotive Technology I	Automotive Technology II (2 credits)

Barbering and Cosmetology

Locations

Mountain View High School (Barbering and Cosmetology)

Stafford High School (Cosmetology)

Student Experience

Barbering and Cosmetology prepares students for certification through the Virginia Board of Barbers/Cosmetology. Coursework includes mannequin- and live-model work, safety, sterilization, sanitation, bacteriology, effective communication, and management. Students will be encouraged to enroll in courses to build entrepreneurial skills.

Potential Credentials

- Virginia Barbering or Cosmetology State License

Eligibility Criteria and Selection

This program is open to rising 11th grade students. Regular attendance is required to meet the clinical lab hours, mandated by the Virginia Department of Professional and Occupational Regulation (DPOR).

Barbering and Cosmetology Courses

	LEARN	LEAD
	11 th Grade	12 th Grade
Program Requirement	Master Barbering I (3 credits) OR Cosmetology I (3 credits)	Master Barbering II (3 credits) OR Cosmetology II (3 credits) AND Career Strategies

Carpentry

Location

Stafford High School

Student Experience

Carpentry prepares students with skills leading to careers in the construction industry and/or post-secondary education. Students learn the principles and technologies in commercial and residential construction. In addition, students develop leadership skills and may compete in the SkillsUSA program and the Bringing Occupational Opportunities To Schools (BOOTS) program.

Potential Credentials

- NCCER Carpentry Level One Assessment
- NCCER Carpentry Level Two Assessment

Eligibility Criteria and Selection

The program is open to rising 11th grade students.

Carpentry Courses

	LEARN	LEAD
	11 th Grade	12 th Grade
Program Requirement	Carpentry I AND Career Strategies	Carpentry II (2 credits)

Collision Repair Technology

Location

North Stafford High School

Student Experience

Students learn a variety of skills, including non-structural analysis, damage repair, welding, and body and frame construction. The program covers how to use hand and power tools and work with various materials. Students practice metal finishing, body filling, and refinishing techniques to prepare surfaces and repair panels on both components and entire vehicles. They also learn to use spray guns and safety equipment, apply undercoats and topcoats, and continue to improve their welding and repair skills.

Potential Credentials

- Automotive Service Excellence (ASE) Certification

Eligibility Criteria and Selection

The program is open to rising 11th grade students.

Collision Repair Technology Courses

	LEARN	LEAD
	11 th Grade	12 th Grade
Program Requirement	Collision Repair Technology I	Collision Repair Technology II (2 credits)

Criminal Justice

Locations

Mountain View High School

Student Experience

Criminal Justice is designed to expose students to occupations within the criminal justice system. Through understanding the rule of law and exploring policy, students will examine evidence, techniques of investigation, report writing, and courtroom procedures. Course topics include the functions of government, law enforcement, corrections, crime investigation, and the court system and criminal behavior and motivation.

Eligibility Criteria and Selection

This program is open to rising 11th grade students.

Criminal Justice Courses

	LEARN	LEAD
	11 th Grade	12 th Grade
Program Requirement	Criminal Justice I	Criminal Justice II (2 credits)

Culinary Arts

Locations

Brooke Point High School
Mountain View High School
Stafford High School

Student Experience

The Culinary Arts program is designed to prepare students for college and careers in the food service industry. Students may participate in immersive work based learning including operating in school cafes and a mobile food trailer.

Potential Credentials

- ServSafe Manager Certification by the National Restaurant Association (NRA)

Eligibility Criteria and Selection

The program is available to rising 11th grade students. The work in this course requires that the student comply with the regulations of the Virginia Health Department in preparing and serving food sold to the public.

Culinary Arts Courses

	LEARN	LEAD
	11 th Grade	12 th Grade
Program Requirement	Culinary Arts I (2 credits)	Culinary Arts II (2 credits)

Drafting

Location

Stafford High School

Student Experience

Drafting is a program through which students delve into drafting as a potential STEM career, learning the essential theories and skills needed for success. They develop technical abilities required to create precise manufacturing and construction drawings from concepts and sketches provided by engineers, architects, and designers.

Potential Credentials

- American Design Drafting Association (ADDA), Architectural
- American Design Drafting Association (ADDA), Mechanical

Eligibility Criteria and Selection

The program is available to rising 11th grade students.

Drafting Courses

	LEARN	LEAD
	11 th Grade	12 th Grade
Program Requirement	Drafting: Fundamentals	Drafting: Architectural OR Drafting: Mechanical

Early Childhood Education

Locations

Brooke Point High School
North Stafford High School

Student Experience

The Early Childhood Education program prepares students for employment or continued education in the field of childcare and early childhood education. Emphasis will be placed on development, implementation, and evaluation of learning activities through first-hand experiences working with young children in an on-site lab setting. National Child Development Associate Credential competencies and state validated education competencies are included in the program.

Potential Credentials

- ParaPro Assessment
- Praxis Core Academic Skills for Educators Tests

Eligibility Criteria and Selection

The programs are available to rising 11th grade students.

Early Childhood Education Courses

	LEARN	LEAD
	11 th Grade	12 th Grade
Program Requirement	Early Childhood, Education, and Services I (2 credits)	Early Childhood, Education, and Services II (2 credits)

Electricity

Location

Stafford High School

Student Experience

Electricity prepares students to develop skills in the installation, operation, maintenance, and repair of residential, commercial, and industrial electrical systems that prepare them for real-world work environments. In addition, students develop leadership skills and may compete in the SkillsUSA program and the Bringing Occupational Opportunities To Schools (BOOTS) program.

Potential Credentials

- NCCER Electrical Level One Assessment
- NCCER Electrical Level Two Assessment

Eligibility Criteria and Selection

The program is open to rising 11th grade students.

Electricity Courses

	LEARN	LEAD
	11 th Grade	12 th Grade
Program Requirement	Electricity I	Electricity II (2 credits)

Emergency Medical Technician (EMT)

Locations

Colonial Forge High School
Stafford High School

Student Experience

The Emergency Medical Technician (EMT) program prepares students for a variety of careers and advanced coursework in the healthcare field including service as a paramedic. Students will have the opportunity to earn their EMT certification and continuing education hours required for recertification.

Potential Credentials

- Emergency Medical Technician State License
- National Registry Emergency Medical Technicians Certification

Eligibility Criteria and Selection

The program is available to rising 11th and 12th grade students who are 16 years of age by the first day of school and meet the eligibility requirements listed below.

This program is accredited by the Virginia Office of Emergency Medical Services (OEMS) and requires students meet certain criteria. According to the Virginia High School EMS Education Program Manual, **Eligibility Requirements for Enrollment and Certification in a High School Emergency Medical Services (EMS) Course in Virginia:**

1. **English Proficiency:**
 - Applicants must be proficient in reading, writing, and speaking English.
 - Note: Spanish language programs are not supported by the National Highway Traffic Safety Administration or the National Registry of EMTs, and therefore not permitted by the OEMS.
2. **English Language Proficiency Level:**
 - English Learners (ELs) must have an English Language Proficiency Level (ELP) of 4+ on the WIDA assessment to be admitted and meet the Virginia Functional Position Description requirements.
3. **Academic Requirements:**
 - Must have a cumulative GPA of 2.0 prior to entering the Emergency Medical Responder (EMR) or EMT program.
 - Must meet all course requirements set by the Program Director and OEMS:
 - **EMR:** Maintain a 2.0 GPA within all program metrics
 - **EMT:** Maintain a 3.0 GPA within all program metrics to participate in the clinical/field component.
4. **Recommended Courses:**
 - Students are encouraged to take to the following courses:
 - Introduction to Health and Medical Sciences (preferred);
 - Anatomy & Physiology; and/or
 - Sports Medicine.
5. **Age Requirements:**
 - Must be 16 years old by the course start date as announced to OEMS (12VAC5-31-471).
6. **Parental Permission:**
 - Students under 18 must provide a signed TR-07 Basic Life Support (BLS) Student Permission Form from a parent or guardian.
7. **Physical and Mental Fitness:**
 - Students must have no physical or mental impairments that would prevent them from performing all required practical skills, including independent functioning and communication, and providing appropriate patient care.
8. **Identification:**
 - Must possess an unexpired state-issued ID, valid passport, or federal visa by the course start date.
9. **Criminal Record:**
 - Students must not have any unresolved arrest/conviction records, juvenile or adult, that have not been cleared by the OEMS Division of Regulation & Compliance.
10. **Professional Appearance and Conduct:**
 - Students must maintain a professional appearance according to local EMS expectations and school district policy.
 - Students must not be under the influence of drugs or intoxicating substances that impair their ability to provide patient care or operate a motor vehicle during class, clinical settings, on duty, or when responding to or assisting in patient care.

EMT courses require students to devote time outside the school day to participate in related activities occurring in the evening and on weekends. BLS for Healthcare Providers CPR certification is required prior to the start of class.

Emergency Medical Technician (EMT) Courses

	LEARN	LEAD
	9 th , 10 th , or 11 th Grade	11 th or 12 th Grade
Program Requirement	N/A	Emergency Medical Technician I (1 credit) AND Emergency Medical Technician II (1 credit)

Firefighting

Location

Stafford County Fire and Rescue

Student Experience

Stafford's Firefighting Program offers a high school firefighter program (HSFP) through a partnership with Stafford County Fire and Rescue. Firefighting prepares students in the professional standards necessary to successfully fight live fires, address hazardous-materials incidents, and conduct search-and-rescue operations. The program meets the standards of National Fire Protection Association (NFPA) 1001-2013 leading to the Firefighting I certification.

Potential Credentials

- Firefighter I Certification Examination
- Firefighter II Certification Examination

Eligibility Criteria and Selection

This program is open to rising 11th or 12th grade students. Firefighting will be offered every other day. Counselors must verify students have a plan to meet required credits necessary for graduation before they are eligible to participate in the program. Please see your school counselor for more information.

Stafford Fire and Rescue and National Fire Protection Association (NFPA) requires students to be at least 16 years old by July 1 and pass the NFPA 1582 medical physical. Additional requirements include parent/guardian consent and CPR, HAZMAT operations, and Mayday Awareness certifications.

Stafford County Fire and Rescue maintain their own application and selection process. Interested students should apply for the firefighting program by completing the Stafford secondary programs application. Applicants will be provided access to the separate Stafford Fire and Rescue application and process timeline.

Firefighting Courses

	LEARN	LEAD
	9 th , 10 th , or 11 th Grade	11 th or 12 th Grade
Program Requirement	N/A	Firefighter I (2 credits) AND Firefighter II AND Career Strategies

Future Educators Academy

Location

Germanna/Mountain View High School

Student Experience

The Future Educators Academy offers a highly unique early college experience by merging rigorous high school studies with college coursework and hands-on professional training. As a Germanna Community College lab school, the program allows you to travel to Germanna's campus for a half-day of dual enrollment courses, putting you on the fast track to earning an Associate Degree in Education upon graduation. Beyond academics, you'll gain invaluable practical insights through classroom observations and a dedicated 40-hour practicum each year alongside experienced teachers. This comprehensive experience is designed to directly address the teacher shortage by preparing the next generation of educators, which is why graduates who complete the program are offered an intent letter guaranteeing consideration for a teaching position right here in our school division.

Future Educators Pathway - Sample Courses

Note: Shaded fields indicate courses required to attain the Associate Degree.

	LEARN	LEAD
	11 th Grade	12 th Grade
English	DE English 11	DE English 12
History and Social Sciences	DE Virginia and United States History	DE Virginia and United States Government
Mathematics	DE Quantitative Reasoning and DE Statistics	Calculus OR Data Science OR AP Computer Science Applications ----- Pre-calculus OR Data Science OR AP Computer Science Applications
Science	Physics	DE Biology AND DE Geology
World Language	World Language III	World Language IV
Health and Physical Education	N/A	N/A
Required Electives	DE Introduction to Teaching as a Profession* AND DE Human Growth and Development	DE Teaching in a Diverse Society AND DE Foundations of Exceptional Education*
Required Electives	DE Principles of Public Speaking AND DE Economic Essentials	DE History of Art AND DE World Regional Geography
Elective	Elective	Elective

NOTE: Sample courses listed do not limit the student's ability to enroll in honors, Advanced Placement, dual enrollment, or International Baccalaureate courses, if available.

*Requires 40 hours of Practicum experience

Heating, Ventilation, Air Conditioning and Refrigeration (HVACR)

Location

Stafford High School

Student Experience

Heating, Ventilation, Air Conditioning and Refrigeration prepares students to professionally install, repair, and maintain the operating conditions of heating, ventilation, air-conditioning, and refrigeration (HVACR) systems. Students work with piping and tubing, study the principles of heat and electricity, install duct systems, and comply with U.S. Environmental Protection Agency (EPA) regulations. Successful completion of the two-course sequence may prepare students for a career as an HVACR technician. In addition, students develop leadership skills and may compete in the SkillsUSA program and the Bringing Occupational Opportunities To Schools (BOOTS) program. Students will also learn current residential building codes associated with the trades. The BOOTS program is led by teachers at Stafford High School. BOOTS program prepares students for careers in construction trades.

Potential Credentials

- NCCER HVACR Level One Assessment
- NCCER HVACR Level Two Assessment

Eligibility Criteria and Selection

The program is open to rising 11th grade students.

Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) Courses

	LEARN	LEAD
	11 th Grade	12 th Grade
Program Requirement	Heating, Ventilation, Air Conditioning and Refrigeration I	Heating, Ventilation, Air Conditioning and Refrigeration II (2 credits)

Masonry

Location

Stafford High School

Student Experience

Masonry prepares students through hands-on training in a program lab outfitted with laser levels, mortar mixers, masonry saws and other industry-standard equipment. Masonry, also known as brick or stone work, develops technical knowledge for laying block and brick, concrete construction, and reading blueprints. In addition, students develop leadership skills and may compete in the SkillsUSA program and the Bringing Occupational Opportunities To Schools (BOOTS) program. Students will also learn current residential building codes associated with the trades. The BOOTS program is led by teachers at Stafford High School. BOOTS program prepares students for careers in construction trades.

Potential Credentials

- NCCER Masonry Level One Assessment

Eligibility Criteria and Selection

The program is open to rising 11th grade students.

Masonry Courses

	LEARN	LEAD
	11 th Grade	12 th Grade
Program Requirement	Masonry I AND Career Strategies	Masonry II (2 credits)

Medical Assistant

Location

Brooke Point High School

Student Experience

The Medical Assistant pathway prepares students to develop basic skills and techniques to assist the physician and/or other medical professionals in patient examinations, basic emergency care, simple laboratory tests, preparation for minor surgical procedures, and administrative duties.

Potential Credentials

- Certified Clinical Medical Assistant (CCMA)

Eligibility Criteria

This program is open to rising 12th grade students.

Medical Assistant Courses

	LEARN	LEAD
	9 th , 10 th , or 11 th Grade	12 th Grade
Program Requirement	N/A	Medical Assistant I/II (4 credits)

Nurse Aide

Locations

Brooke Point High School

Student Experience

The Nurse Aide pathway provides an introduction to the nursing career field. This course is approved by the State Board of Nursing and may qualify the student for participation in Virginia Nurse Aide Competency Evaluation Program (required for certification).

Potential Credentials

- Certified Nurse Aide (C.N.A.) Exam

Eligibility Criteria

This program is open to rising 12th grade students. Students will be required to purchase a scrub uniform, white shoes without a logo, and a watch with a second hand. The instructor will provide a description and cost of the scrub uniform during the first week of class. Local healthcare facilities will be utilized for clinical experience. As part of the

clinical affiliation agreements, students may be required to obtain a Tuberculosis screening (PPD), a urine drug screening, a flu vaccine, and a COVID-19 vaccine. All screenings and vaccines (except COVID-19) must be dated after August of the school year they are entering. The required screenings and vaccines for each clinical facility will be announced in the first month of class and are required prior to the clinical experience. This course is approved by the State Board of Nursing and will qualify the student for participation in the Virginia Nurse Aide Competency Evaluation Program (required for certification). Transportation to the clinical sites is provided.

Nurse Aide Courses

	LEARN	LEAD
	9 th , 10 th , or 11 th Grade	12 th Grade
Program Requirement	N/A	Nurse Aide AND Career Strategies

Paramedic Prep

Locations

Colonial Forge High School
Stafford High School

Student Experience

This course sequence prepares students for a career as a paramedic by completing the Firefighting and EMT programs along with the required certifications. Successful completion of this sequence equips students to enter the emergency public service industry and positions them well for pursuing paramedic certification.

Potential Credentials

- Emergency Medical Technician (EMT) State License
- National Registry Emergency Medical Technicians Certification
- Firefighter I Certification Examination
- Firefighter II Certification Examination

Eligibility Criteria and Selection

This two-year program is open to rising 11th grade students. The Firefighting program application is separate from the Stafford secondary programs application. Firefighting will be offered every other day. Counselors must verify students have a plan to meet required credits necessary for graduation before they are eligible to participate in the program. Please see your school counselor for more information. Students who successfully complete the firefighting courses will be assigned to either Colonial Forge High School or Stafford High School and to complete the 12th grade EMT courses.

Stafford Fire and Rescue and National Fire Protection Association (NFPA) requires students to be at least 16 years old by July 1 and pass the NFPA 1582 medical physical. Additional requirements include parent/guardian consent and CPR, HAZMAT operations, and Mayday Awareness certifications.

Paramedic Prep Courses

	LEARN	LEAD	
	9 th , 10 th , 11 th , or 12 th Grade	11 th Grade	12 th Grade
Program Requirement	N/A	Firefighter I (2 credits) AND Firefighter II AND Career Strategies	Emergency Medical Technician I (1 credit) AND Emergency Medical Technician II (1 credit)
Suggested Elective	Anatomy and Physiology		

Teachers for Tomorrow

Location

Available at all high schools

Student Experience

Through an agreement among University of Mary Washington (UMW), Germanna Community College (GCC), and Stafford Schools, Teachers for Tomorrow (TfT) provides students with a dual enrollment program preparing students for a career in teaching and education. This course sequence provides an overview of human development from birth to adolescence to explore K-12 education. Students who successfully complete the TfT Pathway will be eligible to enter GCC with the first semester of coursework completed towards a two-year elementary education program that leads to a four-year teacher program at UMW. Students may choose to enter UMW after graduation from Stafford Schools. Students interested in earning an educational degree may transfer dual enrollment (DE) credits to other Virginia colleges and universities. Students completing the TfT program will be offered a letter of intent to teach with Stafford Schools upon completion of their licensure requirements.

Potential Credentials

- Praxis Core Academic Skills for Educators Tests

Eligibility Criteria and Selection

This two-year program is open to rising 11th grade students.

Teachers for Tomorrow Courses

	LEARN	LEAD
	11 th Grade	12 th Grade
Program Requirement	DE Virginia Teachers for Tomorrow I*	DE Virginia Teachers for Tomorrow II**

*Requires 40 hours of practicum experience

** Requires 20 hours of practicum experience

Regional High School Programs

Stafford students have access to two regional high school program offerings.

- **Academy of Technology and Innovation at the University of Mary Washington (ATI-UMW)** is focused on preparing students for college and careers connected to the computer and data sciences. ATI-UMW will provide an innovative experience merging the high-tech skill needs of today's economy with the robust, critical thinking of a liberal arts and science foundation.
- **Commonwealth Governor's School (CGS)** at Colonial Forge, North Stafford, and Stafford High Schools provides a curriculum designed to challenge students in four major academic content areas, through problem-based instruction appropriate for gifted and highly motivated learners and to focus on the community issues of environment, development, and service.

The Academy of Technology and Innovation at the University of Mary Washington

Student Experience

ATI-UMW, a college partnership regional high school, focuses on the reciprocal relationship between computer and data science fields, as applied across content areas using an interdisciplinary, project-based learning approach. This program provides opportunities for students interested directly in computer and data sciences, and for students interested in liberal arts and classical sciences who want to augment their skills and knowledge through developing a complementary skill set in computer and data sciences. Students participate in robust, hands-on, project-based learning experiences that will involve real-world learning experiences, performance-based assessment, and hands-on service learning opportunities. Instructional approaches include personalized, small group, and traditional classroom learning environments, and instruction is enhanced through college and community partnerships.



Location

ATI-UMW is located at the University of Mary Washington's Stafford Campus off of Route 17 in Stafford County. Stafford students selected for enrollment and opting to attend will transfer to ATI-UMW for all four years of high school. Students will be concurrently enrolled in their zoned high school for VHSL eligibility, but complete all academic coursework at ATI.

Eligibility Criteria and Selection

All students eligible for entry into the 9th grade at a Stafford County high school and pursuing at minimum a standard diploma are eligible to apply. Eligible students that apply will be entered into a pool of candidates for selection via lottery. Students and their families should be aware that coursework in the program is rigorous, includes a number of advanced, Advanced Placement, and optional dual enrollment courses, providing opportunities for college credit and/or industry certifications.

ATI-UMW - Sample Course Sequence

Content Area	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Global Studies I (English 9 and World Geography OR AP World Geography)	Global Studies II (English 10 and World History II OR AP World History)	American Studies I (DE English 11 Virginia and DE US History OR regular English 11 and US History)	American Studies II (DE English 12 and Virginia and DE US Government OR regular English 12 and US History)
History and Social Sciences				
Mathematics	Algebra I	Geometry	Algebra II	Pre-Calculus
	Integrated Mathematics I (Algebra I + Geometry Part A)	Integrated Mathematics II (Algebra II + Geometry Part B)	Pre-Calculus OR Data Science	Calculus AB OR AP Statistics OR DE Mathematics
	Geometry	Algebra II		
	Algebra II	AP OR DE Pre-Calculus	AP Calculus AB OR DE Calculus	AP Calculus BC OR DE Calculus OR AP/DE Statistics
Science OR Integrated Science	Biology	Chemistry (Regular OR Honors)	Physics OR DE Biology	Physics, AP, OR DE Science
Health and Physical Education	Health and Physical Education 9 (virtual)	Health and Physical Education 10 (virtual)	N/A	N/A
World Language Offerings*	Spanish I, II, III	Spanish II, III, IV	Spanish III, IV, V (AP OR DE)	Spanish IV, V (AP OR DE)
Required Electives	Computer and Data Science Principles	AP Computer Science Principles	AP Computer Science Applications OR AP Statistics	Economics and Entrepreneurship (Fulfills Economics and Personal Finance content, integrated with entrepreneurship and taught across all four years; awarded senior year)
Additional Elective Possibilities**	Cloud Computing; Coding Website Design (HTML and CSS); Data Methods and Analysis (Mixed Methods); Data Science Applications; Data Visualizations; Digital Art I; Digital Art II; Digital Marketing and Data Science; Ethics and Government for Data and Computer Science; Introduction to Data Science Coding Languages (R, Python, SQL, etc.) Music Studio; Population Science; Teachers for Tomorrow I and II; UX and UI			
**The exact elective possibilities will be curated through existing staff, higher education partnerships, Virtual Virginia, concurrent enrollment opportunities, independent study, and small group instruction based on student interests and instructor availability.				

NOTE: Upper-level courses may include Advanced Placement (AP) or Dual Enrollment (DE) options not currently listed. Staff are working with Germanna Community College, Rappahannock Community College, and the University of Mary Washington to consider an associate's degree pathway.

*Other world languages may be offered through Virtual Virginia and augmented through the college partnership.

The Commonwealth Governor’s School

Student Experience

The Commonwealth Governor’s School (CGS) provides gifted and motivated students with a challenging, interdisciplinary program in English, science, mathematics, and social studies. Based on a school-within-a-school model, this half-day program utilizes real-time interactive technology, field experiences, and team teaching to create a regional community of learners.

Coursework in the CGS curriculum includes honors, dual enrollment, and Advanced Placement opportunities. Students as early as 9th grade can take advantage of these advanced classes. CGS believes in the need for students to learn outside of a traditional classroom setting. As a result, CGS students participate in six to seven field experiences per year. These hands-on learning opportunities enable students to pursue real-life applications and work with experts in a variety of career fields.

Each year, students pursue a yearlong independent research (culminating) project on an interest, topic, question, or initiative they would like to develop. The student works with an advisor, project expert, and other CGS faculty members on research skills, statistical analysis, project development, and presentation skills. Upon completing the four sections of the culminating project, students receive one graded high school credit at the end of their senior year.

Locations

Accepted students attend one of three sites, based on the location of their residence (not necessarily the zoned high school): Colonial Forge High School, North Stafford High School, or Stafford High School. Students electing to attend CGS will transfer full time to the assigned school location for all four years of high school.

Eligibility Criteria and Selection

Students entering the CGS program must have completed Algebra I during an academic school year prior to the 9th grade. Students apply to CGS through the Stafford secondary programs application. Selection is based on multiple criteria: student portfolio, interview, ability test scores, achievement test scores, academic performance, and rating scales from teachers and mentors. Students interested in applying for CGS should contact their school counselor or gifted education resource teacher and complete all parts of the application during the specified application window.

Commonwealth Governor’s School - Sample Course Sequence

Content Area	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Honors English 9	Honors English 10 OR AP English 10 Seminar	AP English Language and Composition	AP English Literature and Composition
Mathematics	Honors Algebra II*	Honors Geometry and Trigonometry OR DE Pre-Calculus	DE Pre-Calculus OR AP Calculus AB with Special Topics	AP Statistics OR AP Calculus BC and Multivariable Calculus
Science	AP Environmental Science	AP Biology	DE Chemistry	AP Physics 1
History and Social Sciences	AP European History	AP U.S. Government	AP U.S. History	AP Human Geography
Culminating	Advanced Research and Writing (Novice Level)	Advanced Research and Writing (Apprentice Level)	Advanced Research and Writing (Journeyman Level)	Advanced Research and Writing (Master Level)

*Students entering the CGS program must have completed Algebra I during the academic school year prior to the 9th grade.

Notes:

- Students wishing to enroll in additional AP mathematics courses (i.e., AP Statistics, AP Calculus AB, etc.) may need to enroll in that class as an elective. See the CGS math pathways document for additional information.
- Students complete components of the Culminating Project annually, earning a course credit in grade 12 through the CGS Advanced Research and Writing course.
- Additional fees may be required for courses included in the CGS program. All efforts will be made to keep fees to a maximum of \$75 or less. Opportunities for financial assistance may be available. Please see your school counselor.

For more information, please visit the [CGS website](#) or see the gifted resource teacher available at each school.

High School Offerings



English Courses

The English curriculum prepares individuals to read with comprehension, think critically, and communicate effectively. To provide for individual differences, instructional grouping is offered at each grade level. Students will take the End-of-Course (EOC) Reading and EOC Writing assessments in selected courses. Weighted grades are designated by a # for AP, DE, and IB courses.

General Courses

134100 ENGLISH 9
135100 ENGLISH 10
136100 ENGLISH 11
137100 ENGLISH 12
1 Credit per course

A series of sequential courses designed to prepare students for continuing education and careers beyond high school. Instructional activities are based on the Virginia Standards of Learning and develop students' proficiency in oral and written communication, reading, research, and critical thinking and analysis skills. Students will explore a variety of text genres and make comparisons between diverse texts.

1341002 HONORS ENGLISH 9
1351002 HONORS ENGLISH 10
1361002 HONORS ENGLISH 11
1 Credit

A series of sequential courses, designed to prepare students for college and AP English, DE English Composition, or IB English courses. The instruction develops fundamental skills in inquiry (research), rhetorical analysis, argument, and synthesis above and beyond the scope of the Virginia Standards of Learning.

Advanced Placement Courses

AP courses are college-level courses that prepare and encourage students to take the course's AP examination for possible college credit.

1357104 AP ENGLISH 10: SEMINAR
Grade 10
1 Credit#

This course engages students in cross-curricular conversations that explore academic and real-world topics and issues while considering diverse perspectives (e.g., cultural and social, artistic and philosophical, political and historical, environmental, economic, and scientific). It will foster students' ability to investigate a problem or issue, analyze arguments, compare different perspectives, and synthesize information from multiple sources. Students will evaluate a variety of literary, informational, and visual texts and analyze authors' perspective, rhetorical choices, and argumentative structure to develop evidence-based arguments. Students will work alone and in a group to convey their findings through multiple written formats, multimedia presentations and oral defenses. Although this course has no prerequisites, after completion of the English 10 AP Seminar course, students are eligible to take the subsequent

course, AP Research, and may be eligible for an AP Capstone Diploma.

1377104 AP ENGLISH: LANGUAGE AND COMPOSITION

Grade 11

1 Credit#

This course is designed to enable students to write effectively for college courses across the curriculum and in their personal and professional lives. Students are provided with opportunities to write about a variety of subjects, with emphasis on expository analytical, and argumentative forms of writing. Additionally, students learn to read primary and secondary sources carefully, to synthesize material from texts in their own compositions, and to cite sources using conventions recommended by professional organizations. Although the course focus is primarily writing, students are also engaged in reading complex texts with understanding and examining the rhetorical strategies and stylistic choices made by writers. Students will be prepared to take the year-end AP English Language and Composition exam for possible college credit. Summer assignments may be required.

1377204 AP ENGLISH: LITERATURE AND COMPOSITION

Grade 12

1 Credit#

AP English is a year-long course designed to be taken during a student's senior year, engender advanced study of literature, and prepare students for college. The course will include literary analysis and composition components. Students will practice interpreting and evaluating literature. Essays will be expository, analytical, and argumentative. Students will be prepared to take the year-end AP English Literature and Composition exam for possible college credit. Summer assignments may be required.

Dual Enrollment Courses for English

Courses meeting the Uniform Certificate of General Studies (UCGS) are indicated within course descriptions.

1361006 DE ENGLISH COMPOSITION (ENG 111 and 112)

Grades 11-12

1 Credit#

DE English introduces students to critical thinking and the fundamentals of academic writing. Eighty percent of the work in this class will involve writing assignments. Through the writing process, students refine topics; develop and support ideas; investigate, evaluate, and incorporate appropriate resources; edit for effective style and usage; and determine appropriate approaches for a variety of contexts, audiences, and purposes. Writing activities will include exposition and argumentation with at least one researched essay per semester. The second semester of the course requires students to locate, evaluate, integrate, and document sources and effectively edit for style and use. The course will prepare students for all other expected college writing and for writing in the workplace by engaging the writing process, rhetoric, critical thinking, and research. Each semester of the course requires 15-20 pages of published writing, which can be distributed across multiple papers. These courses fulfill UCGS requirements.

1377306 DE ENGLISH WORLD LITERATURE (ENG 255)

Grade 12

1 Credit#

Prerequisite: ENG 112 or a 3 on AP Language or AP Literature exam.

DE World Literature examines literary texts across a variety of cultures, genres, and time periods. Students develop critical thinking and interpretive skills through close reading, discussion, and analysis of literary texts from around the world in their historical, cultural, social, and/or literary contexts. This course explores the diversity and depth of the human experience through literature across a variety of cultures and traditions. This course fulfills UCGS requirements.

1382206 DE PRINCIPLES OF PUBLIC SPEAKING (CST 100)

Grade 11-12

1 Credit#

This course applies theory and principles of public address with an emphasis on preparation and on the extemporaneous method of delivery. The assignments in the course require college-level reading and analysis of scholarly studies and coherent communication through written reports, including the production of at least one

APA/MLA-formatted individual writing assignment.

Commonwealth Governor's School Courses

AP courses are college-level courses that prepare and encourage students to take the course's AP examination for possible college credit.

13410027 ENGLISH 9: HONORS ENGLISH 9

Grade 9
1 Credit

Honors English 9 introduces students to the critical analysis of literature through challenging reading, writing, and discussion. Students study the defining characteristics of the forms and levels of discourse, both imaginative and expository. Students apply their skills to timeless problems of communities, their environment, and their development. In addition, students study fictional representation and historical facts surrounding key events in European history.

13510027 ENGLISH 10: HONORS ENGLISH 10

Grade 10
1 Credit

Basic concepts learned in the 9th grade course are applied to literary works of increasing complexity. Special attention is given to the relationship between and among individuals, their society, and their environment. Written and oral work increasingly emphasizes persuasive forms appropriate to public discourses and to problem-solving in human communities.

13771047 ENGLISH 11: AP ENGLISH LANGUAGE AND COMPOSITION

Grade 11
1 Credit#

Students extend and refine their skills in critical reading and writing and will prepare for the 11th grade SOL. These skills are applied to examining the American cultural experience and its connections to the world. English and Social Studies content will thus reinforce each other. Reading and writing assignments will be challenging and designed to expand student sophistication in exploring aesthetic and cultural issues.

13772047 ENGLISH 12: AP ENGLISH LITERATURE AND COMPOSITION

Grade 12
1 Credit#

In this course, students will apply their critical English skills to European and American literature, analyzing the development of cultural trends, including changing views of the protagonist and the surrounding social climate. Students will develop an understanding of major cultural developments of the nineteenth and twentieth centuries. In addition, students will examine the cultural landscape through both its fictional representation and through an examination of factual information presented in CGS Human Geography.

International Baccalaureate Courses

Students will be prepared and are encouraged to take the year-end IB examination for possible college credit. Fees for IB exams are set annually by the International Baccalaureate Organization (IBO). Schools offering these courses: BPHS (through 2026-2027) and MVHS.

IB LANGUAGE AND LITERATURE (HL)

1361005 Grade 11
1372005 Grade 12
1 Credit per Year#

Prerequisite: English 10 or Honors English 10 or AP English 10 Seminar for IB grade 11

Prerequisite: IB grade 11 for IB grade 12

In this 2-year course, students will be challenged to think critically about the role of language and interactions between text, context, audience, and purpose. They can expect to develop college-level writing skills. In addition, students will engage in analysis of literary works such as short stories, poetry, plays, non-fiction, and novels. In 11th grade, students focus on language in cultural context and language in mass media. In the 12th grade, students focus on analysis of poetry, memoir, and plays, and a critical and comparative study of the novel as a literary genre.

BPHS=Brooke Point CFHS=Colonial Forge HHS=Hartwood MVHS=Mountain View NSHS=North Stafford SHS=Stafford
#-Weighted Course

Students who take this course should be prepared to think critically and take an active role in class discussions. Required IB assessments include oral activities, written tasks, an oral commentary, and course-end exams that call upon the student to analyze and compare previously unseen texts and literary works that have been read during the course.

English Elective Courses

138220 ORAL COMMUNICATION

Grades 10-12

1 Credit

Since communication is a lifelong process, oral communication focuses on necessary skills to help students communicate more effectively in their personal, social, and professional lives. To accomplish this goal, students will receive instruction in prepared speeches, impromptu speeches, personal communication, and oral interpretation.

138310 JOURNALISM I

Grades 9-12

1 Credit

This elective course teaches the skills of managing, editing, and publishing a product in the journalistic writing style. Students write news, editorials, features, and sports articles and publish school and community news in the school magazine. This is a publication course and may involve participation outside of class.

138320 JOURNALISM II

Grades 10-12

1 Credit

Prerequisite: Journalism I and service on the school's publication staff

This sequential elective course is specifically designed for students serving on the school's publication staff. This is a publication course and may involve participation outside of class.

138330 JOURNALISM III

Grades 11-12

1 Credit

Prerequisite: Journalism II and service on the school's publication staff

This sequential elective course provides students with the opportunity to learn editorial leadership and professionalism. Students will function as productive members of the publication staff. This is a publication course and may involve participation outside of class.

138340 JOURNALISM IV

Grade 12

1 Credit

Prerequisite: Journalism III and service on the school's publication staff

This sequential elective course will train students to serve as publication leaders who participate in peer tutoring, plan newspaper content, and help determine the news and editorial foci of the school newspaper. This is a publication course and may involve participation outside of class.

138410 PHOTOJOURNALISM I

Grades 9-12

1 Credit

In this course, students study photography and layout of publications and the writing styles appropriate for those publications. Generally, this course is designed for members of the school's yearbook staff. This is a publication course and will involve participation outside of class.

138420 PHOTOJOURNALISM II**Grades 10-12****1 Credit*****Prerequisite: Photojournalism I and service on the school's publication staff***

This sequential elective course is specifically designed for students serving in key roles on the school's yearbook staff. This is a publication course and will involve participation outside of class.

138430 PHOTOJOURNALISM III**Grades 11-12****1 Credit*****Prerequisite: Photojournalism II and service on the school's publication staff***

This sequential elective course produces the school yearbook. Students prepare photographs, layout, and writing appropriate to the yearbook. Students also serve in leadership and supervisory roles to the yearbook staff. This is a publication course and will involve participation outside of class.

138440 PHOTOJOURNALISM IV**Grade 12****1 Credit*****Prerequisite: Photojournalism III and service on the school's publication staff***

This sequential elective course produces the school yearbook. Students prepare photographs, layout, and writing appropriate to the yearbook. Students also serve in leadership and supervisory roles to the yearbook staff. This is a publication course and will involve participation outside of class.

138120 CREATIVE WRITING I**Grades 9-12****1 Credit**

This course develops a community of writers who share their work in the classroom and in the school literary magazine. Considerable emphasis is placed on developing an effective critique and on providing a climate that enhances enjoyment of creative expression. The course is a learn-by-doing course where students learn both to discipline and to free themselves through language. Students will experiment with literary genres and with various techniques and forms. Students will publish the school's literary magazine. This is a publication course and may involve participation outside of class.

138130 CREATIVE WRITING II**Grades 10-12****1 Credit*****Prerequisite: Creative Writing I and service on the school's publication staff***

This sequential elective course is a writing intensive class designed for students in grades 10-12 who have completed an introductory course in creative writing and have demonstrated a proclivity toward writing. The course builds upon and refines the skills and concepts developed in the introductory course and will feature self-directed projects and student-led discussions with a strong emphasis on the professional writer's life and craft. Students are required to submit work for publication both within and outside the school. This is a publication production course which involves participation outside of class. Creative Writing II students will assume the staff leadership roles for the school literary magazine.

138140 CREATIVE WRITING III**Grades 11-12****1 Credit*****Prerequisite: Creative Writing II and service on the school's publication staff***

This sequential elective course is a writing intensive class designed for students in grades 11 or 12 who have completed Creative Writing I and II and have demonstrated a proclivity toward writing. The course builds upon and refines the skills and concepts of Creative Writing I and II and will feature self-directed projects and submission to publications both within and outside school. This is a publication production course which involves participation outside of the class. Creative Writing III students will work alongside Creative Writing II students to assume

leadership roles for the school literary magazine.

READING ACROSS THE CONTENT AREAS I-IV

139110 Grade 9

139120 Grade 10

139130 Grade 11

139140 Grade 12

1 Credit

Placement: *Selection for this course is based on a set of criteria to include passing the 8th grade SOL, and NWEA MAP results.*

Reading Across the Content Areas is designed for specific instruction in reading secondary content material which utilizes text that often is compactly written and contains specialized vocabulary. Instruction for students placed in this course will focus on reading fluency, vocabulary, graphics (maps, charts, tables), and reading on the Internet. Strategies for questioning, visualizing, connecting, predicting, summarizing, and monitoring one's understanding will be covered.

DEVELOPMENTAL READING I-IV

139210 Grade 9

139220 Grade 10

139230 Grade 11

139240 Grade 12

1 Credit

Placement: *Selection based on IEP team recommendation.*

Students placed in these courses require differentiated instruction in reading, and may qualify as 1 elective credit per course, up to 4 credits. This program provides an academic based opportunity for students to achieve a degree of mastery in phonemic awareness, phonics, fluency, vocabulary, and comprehension. Teachers support students' reading through continued assessment, the provision of instructional-level materials, planned interventions that reflect the student's Individualized Education Program, and the developmental nature of reading.

ENGLISH REVIEW

136000 Grade 11-12

1 Elective Credit

Placement: *Selection based on teacher recommendation and state assessment results.*

This course is designed for students who may need additional time to complete the required verified English credits for graduation. The course supports students' understanding of the English 11 standards and prepares them for the End of Course English assessment. Students will build understanding of critical reading, summarizing, drawing conclusions, and writing in response to texts. Strategies for questioning, visualizing, connecting, predicting, summarizing, and monitoring one's understanding will be covered.

138210 COMMUNICATION FOR LEADERSHIP

Grade 9-11

1 Elective Credit

This course will develop and enhance students' ability to speak effectively and listen critically. Students will learn more about communication and how it affects human interaction by participating in individual and group learning activities. Students will learn to write and deliver a variety of speeches and learn to critique themselves and others. Group activities emphasize leadership styles and critical thinking skills. Students develop into ethical and effective communicators, whose integrity and leadership will affect positive change. This course requires students to participate in learning experiences outside the school day including evenings and weekends.

Schools offering course: *BPHS, CFHS, MVHS*

History and Social Sciences Courses

The Standard Diploma requires three courses in history. Standard Diploma students must take either World History I or World History II, plus Virginia and United States History and Virginia and United States Government. The Advanced Studies Diploma requires that students complete four courses in history. Students may substitute Advanced Placement courses for selected courses. Weighted grades are designated by a # for AP, DE, and IB courses.

General Course Sequence

431000 WORLD HISTORY AND GEOGRAPHY I

Grade 9

1 Credit

This beginning course explores the historical development of people, places, and patterns of life from ancient times to 1500 CE (AD). World History and Geography I or II is required for the Standard Diploma.

4310002 HONORS WORLD HISTORY AND GEOGRAPHY I

Grade 9

1 Credit

This advanced course explores the historical development of people, places, and patterns of life from ancient times to 1500 CE (AD) in preparation for AP and/or IB courses. Students are expected to be independent learners with good written and oral communication skills. The instruction provides additional expectations requiring students to conduct independent research and write essays.

432000 WORLD HISTORY AND GEOGRAPHY II

Grade 10

1 Credit

This in-depth course explores the historical development of people, places, and patterns of life from 1500 CE (AD) to the present. Students will complete a series of performance assessments throughout the course to demonstrate proficiency and potentially earn verified credit, if needed.

4320002 HONORS WORLD HISTORY AND GEOGRAPHY II

Grade 10

1 Credit

This advanced course explores the historical development of people, places, and patterns of life from 1500 CE (AD) to the present in preparation for AP and/or IB courses. Students are expected to be independent learners with good written and oral communication skills. The instruction provides additional expectations requiring students to conduct independent research and write essays. Students will complete a series of performance assessments throughout the course to demonstrate proficiency and potentially earn verified credit, if needed.

433100 VIRGINIA AND UNITED STATES HISTORY

Grade 11

1 Credit

This required course will explore the political, economic, and cultural growth of Virginia and the United States. Skills in historical analysis, perspective, interpretation, and historical writing will be emphasized. Students will complete a series of performance assessments throughout the course to demonstrate proficiency and potentially earn verified credit, if needed.

433200 VIRGINIA AND UNITED STATES GOVERNMENT

Grade 12

1 Credit

This required course will explore the structure and function of the American Government at the national and state

levels. Students will also study the government of Stafford County and the student's role as a citizen.

Advanced Placement Courses

AP courses are college-level courses that prepare and encourage students to take the course's AP examination for possible college credit.

4321004 AP MODERN WORLD HISTORY

Grade 10

1 Credit#

Note: This course may be substituted for World History and Geography II.

Students will explore the historical development of people, places, and patterns of life from 1200 CE (AD) to the present. There will be a special emphasis on thinking historically, historical perspectives; and using primary source documents to analyze and write about significant events.

4333004 AP UNITED STATES HISTORY

Grades 11-12

1 Credit#

Note: This course may be substituted for Virginia and U.S. History.

This course provides the knowledge and analytical skills necessary to deal with the achievements, issues and problems of American history emphasizing in-depth analysis of major political, social, cultural, and economic developments.

4360004 AP COMPARATIVE GOVERNMENT AND POLITICS

Grade 12 (Grade 10 for IB Students)

1 Credit#

Note: This course may be substituted for Virginia and U.S. Government.

This course provides an intense study of the structures and functions of the American government and an examination of other governmental forms in the world, including China, Great Britain, Iran, Mexico, Nigeria, and Russia.

4334004 AP UNITED STATES GOVERNMENT/POLITICS

Grade 12

1 Credit#

Note: This course may be substituted for Virginia and U.S. Government.

This course provides an intense study of the structures and functions of the U. S. Government and political system.

4311004 AP HUMAN GEOGRAPHY

Grades 9-12

1 Credit#

Note: This course may be substituted for World History and Geography I or World History and Geography II.

This course provides students with the opportunity to identify and analyze contemporary concerns and problems from local, national, and global perspectives. Using geographical tools and skills, students consider issues pertaining to population distribution and composition, cultural patterns and processes, political organization, land use, industrialization and economic development, and urbanization.

4380004 AP PSYCHOLOGY

Grades 11-12

1 Credit#

AP Psychology provides an overview of current psychological theory and practice. Students will explore the systematic and scientific study of the behavior and mental processes of humans and other animals. In accordance with the driving principles of current psychological practice, this course will emphasize scientific method and critical thinking skills.

4392004 AP ECONOMICS

Grades 11-12

1 Credit#

AP Economics combines both AP Micro and Macroeconomics into a one-year course. The first semester will focus on microeconomics, the study of the behavior of individuals and businesses as they exchange goods and services in the marketplace. The second semester will focus on macroeconomics, the study of the principles of economics that apply to the economic system as a whole. Personal finance standards will be incorporated throughout the course to meet the Economics and Personal Finance graduation requirement. Students will have the opportunity to take both AP exams at the end of the year.

4340004 AP EUROPEAN HISTORY

Grades 10-12

1 Credit#

Note: This course may be substituted for World History and Geography II.

AP European History is a world history and geography survey course designed to emphasize higher cognitive and critical thinking skills. Students will study the cultural, economic, political, and social developments that have shaped Europe from 1450 to the present.

Dual Enrollment Courses for History

Courses meeting the Uniform Certificate of General Studies (UCGS) are indicated within course descriptions.

4331006 DE UNITED STATES HISTORY (HIS 121 and 122)

Grade 11

1 Credit#

This rigorous course covers roughly 500 years of American history, from North America's pre-Columbian beginnings to the present, while providing students with the opportunity to acquire the knowledge and analytical skills necessary to understand the achievements, issues, and challenges of American history. Students who successfully complete this course will receive credit from Germanna Community College. This course can substitute for Virginia and United State History. These courses fulfill UCGS requirements.

4332006 DUAL ENROLLMENT UNITED STATES GOVERNMENT (PLS 135 and 136)

Grade 12

1 Credit#

This course examines the political structure, processes, institutions, and policy making at the federal, state, and local levels. It examines federalism and the relationship between the different levels of government. Topics include civil liberties and civil rights; political parties and elections; public opinion, the media, and interest groups; policy making; and state and local issues such as education, healthcare, criminal justice, and metropolitan issues. PLS 135 fulfills UCGS requirements.

Commonwealth Governor's School Courses

AP courses are college-level courses that prepare and encourage students to take the course's AP examination for possible college credit.

43400047 SOCIAL STUDIES 9: AP EUROPEAN HISTORY

Grade 9

1 Credit#

AP European History is a world history and geography survey course designed to emphasize higher cognitive and critical thinking skills. Problem-solving strategies are utilized to teach basic social science skills such as map reading, research, comparison-making, and assessing cause and effect. Students will be prepared for the Standards of Learning World History from 1500 CE (AD) to the Present and World Geography test. AP European History meets state graduation requirements for history, often taking the place of a World History course.

BPHS=Brooke Point CFHS=Colonial Forge HHS=Hartwood MVHS=Mountain View NSHS=North Stafford SHS=Stafford
#-Weighted Course

43340047 SOCIAL STUDIES 10: AP U.S. GOVERNMENT

Grade 10

1 Credit#

This government course is designed to enable students to identify and analyze political theory while examining the institutions, political processes, and practices of local, state, and national governments. Students identify topics of community, national, and international concern, gather data and research possible solutions.

43330047 SOCIAL STUDIES 11: AP U.S. HISTORY

Grades 11-12

1 Credit#

This U.S. History course is designed to present U.S. History within a global perspective. Emphasis will be on critical reading and writing. Students will interpret and utilize factual data to construct historical arguments and develop a deeper understanding of contemporary American society.

43110047 SOCIAL STUDIES 12: AP HUMAN GEOGRAPHY

Grade 12

1 Credit#

This course provides students with the opportunity to identify and analyze contemporary concerns and problems from local, national, and global perspectives. Using geographical tools and skills, students consider issues pertaining to population distribution and composition, cultural patterns and processes, political organization, land use, industrialization and economic development, and urbanization.

International Baccalaureate Courses

Students will be prepared for and are encouraged to take the year-end IB examination for possible college credit.

Schools offering these courses: BPHS (through 2026-2027) and MVHS.

4392005 IB ECONOMICS (SL)

Grades 11-12

1 Credit#

Note: This course fulfills the Economics and Personal Finance requirement for graduation. This course can be used to satisfy the Group 6 “art or elective” requirement for full IB Diploma Program students.

This one year course covers microeconomics, macroeconomics, international economics, and development economics in addition to personal finance. The ethical dimensions involved in the application of economic theories and practices permeate the course, and economics are investigated with a global perspective.

6332205 IB BUSINESS MANAGEMENT (SL)

Grades 11-12

1 Credit#

Note: This course can be used to satisfy the Group 6 “art or elective” requirement for full IB Diploma Program students.

Business and Management is a one-year course designed to provide a broad introduction to the principles and practices of organizations, set in a scene of international markets, exchange, and production. A written assessment based on the application of tools, techniques, and theory to a real business situation or problem is internally assessed by the classroom teacher.

IB THEORY OF KNOWLEDGE

4311005 Grade 11

4312005 Grade 12

1 Credit per Year#

Prerequisite: IB grade 11 for IB grade 12

IB Theory of Knowledge (ToK) is a two-year course required for an IB Diploma. It includes embedded instruction and

guided practice regarding the other two elements of the IB Core—the Extended Essay and Creativity, Action, and Service. The ToK course is designed to foster in students a habit of mind that reflects on human ways and limits of knowing and on the human ability to communicate these ways of knowing. Students will explore fundamental questions of epistemology by reflecting upon and questioning the basis of knowledge and experience, examining cultural and ideological bias, and by formulating rational arguments and value judgments of their own. Academic disciplines examined include language, history, logic, science, mathematics, ethics and aesthetics. The course includes an externally assessed paper and internally assessed oral presentation.

IB HISTORY (HL)

4313005 Grade 11

4314005 Grade 12

1 Credit per Year#

Prerequisite: World History or Honors World History for IB grade 11

Prerequisite: IB grade 11 for IB grade 12

This is a two-year course of study. During the first year, students will study “History of the Americas,” a survey of U.S., Canadian, and Latin American history. The first year focuses on the American region’s historical experience, and political, economic, and social systems. Students will demonstrate historical analysis by discussion, presentation, and written work including an internally assessed research paper. During the second year, students study “Twentieth Century Topics” of World History. The second year continues to stress political, economic, and social systems and requires students to further develop their skills of interpretation and analysis through historiography. The course culminates in a series of external assessments that include document-based questions, a short essay response, and an internally assessed research paper which provide the possibility of college credit.

4371005 IB SOCIAL AND CULTURAL ANTHROPOLOGY (SL)

Grades 11-12

1 Credit#

Note: This course can be used to satisfy the Group 6 “art or elective” requirement for full IB Diploma Program students.

IB Social and Cultural Anthropology is a one-year college level comparative study of human societies and culture. It explores both the universal principles of social and cultural life and characteristics of specific societies and cultures. The course examines society from the small scale to the complex industrial scale, and modern nation states.

4380005 IB PSYCHOLOGY (SL)

Grades 11-12

1 Credit#

Note: This course can be used to satisfy the Group 6 “art or elective” requirement for full IB Diploma Program students.

The IB Psychology is a one-year course most appropriately defined as the systematic study of human experience and behavior; physical, economic and social environments; and the history and development of social and cultural institutions. Students will collect, describe, and analyze data used in studies of society, to test hypotheses and interpret complex data and source material. At the standard level students are required to study the biological, cognitive, learning, and humanistic perspectives, to use qualitative and quantitative research methodology, and to complete an experimental study.

History and Social Sciences Elective Courses

435000 AFRICAN AMERICAN HISTORY

Grades 10-12

1 Credit

This course provides students with a broad overview of the African American experience and explores ancient Africa, their role in building America, and moving through modern times. In addition, the course will highlight the social, cultural, and political contributions of African Americans to American society. This course will have a capstone project.

432800 GLOBAL ISSUES**Grades 11-12****1 Credit**

This course will provide an opportunity for in-depth study of current world events. In addition, students will investigate the geographic, economic, social, and cultural background of current world events. Students should have a strong intellectual curiosity concerning world affairs and successfully completed prior social studies coursework.

437000 SOCIOLOGY**Grades 10-12****1 Credit**

This introductory Social Science course will include studies in social change, social status, group behavior, and adjustment to personal problems and situations throughout life and society. Students should have successfully completed prior coursework in English and social studies.

438000 PSYCHOLOGY**Grades 10-12****1 Credit**

This course is designed to introduce students to the systemic and scientific study of the behavior and mental processes of humans and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields. They also learn about the ethics and methods psychologists use in their science and practice.

633000 ECONOMICS AND PERSONAL FINANCE (also listed under Career and Technical Education)**Grades 10-12****1 Credit**

This course presents economic concepts, the interdependence of the world's economies, and skills necessary to navigate the financial decisions faced to make informed decisions related to career exploration, budgeting, banking, credit, insurance, spending, taxes, saving, investing, buying/leasing a vehicle, living independently, and inheritance. Development of financial literacy skills and an understanding of economic principles will provide the basis for responsible citizenship and career success. The course will assist in the development of thinking skills that include analyzing real-world situations, economic reasoning, decision-making, and problem-solving. To assist in meeting diploma requirements for graduation, all students will take the WISE Financial Literacy test (state-approved industry credential) and complete an online learning experience through completion of the Ever-Fi Financial Literacy module.

4393006 DE ECONOMIC ESSENTIALS (ECO 150)**Grades 11-12****1 Credit#**

This dual enrollment course presents a broad overview of microeconomic and macroeconomic theory with application to current economic situations. Introduces concepts, policies, and theories in addition to models of domestic and global economies. Students who successfully complete this course will receive credit from Germanna Community College. This course fulfills UCGS requirements.

433500 POLICY, ADVOCACY, AND ETHICS**Grade 10****1 Elective Credit**

Policy, Advocacy, and Ethics will explore foundational ethical theories, analyze moral dilemmas, and understand their applications in shaping policies and advocating for change. Through case studies, projects, and class discussions, the course emphasizes critical thinking and decision making, equipping students with the skills to navigate complex issues and be effective leaders.

Schools offering course: MVHS

428100 LEADERSHIP AND COMMUNITY ENGAGEMENT

Grades 11

1 Credit

Leadership and Community Engagement provides students enrolled in the LEAPS: Community Leadership Pathway with a comprehensive understanding of the principles and practices of effective community-based action. Key topics include the steps of action research, fundraising and budgeting, organizational management and team-building, conflict resolution, and legal and ethical frameworks for leadership.

Schools offering course: MVHS

Mathematics Courses

Sample High School Mathematics Course Sequences

	9th Grade	10th Grade	11th Grade	12th Grade
Sample #1	Algebra I	Geometry	Algebra, Functions, and Data Analysis	Algebra II
Sample #2	Algebra I	Geometry	Algebra II	Algebra III OR Probability and Statistics OR Data Science
Sample #3	Geometry	Algebra II	Probability and Statistics or Algebra III with Trigonometry or Pre-calculus	Higher-Level Mathematics Elective*
Sample #4	Algebra II	Pre-calculus or DE Quantitative and Statistical Reasoning	Higher-Level Mathematics Elective*	Higher-Level Mathematics Elective*

***Higher-Level Mathematics Elective Courses**

- AP Statistics
- DE Quantitative and Statistical Reasoning
- AP Computer Science Applications
- IB Computer Science (SL)
- DE Pre-calculus
- AP Pre-calculus
- Calculus
- DE Calculus
- DE Linear Algebra
- DE Differential Equations
- AP Calculus AB
- AP Calculus BC
- Data Science
- IB Mathematics: Applications and Interpretation SL
- IB Mathematics: Applications and Interpretation HL
- IB Mathematics: Analysis and Approaches SL
- IB Mathematics: Analysis and Approaches HL

Preparing students to pursue higher education, to compete in a global workforce, and to be informed citizens requires rigorous mathematical knowledge and skills. Students must gain an understanding of fundamental ideas in number sense, computation, measurement, geometry, probability, data analysis and statistics, algebra and functions, and they must develop proficiency in mathematical skills. The content of the mathematics standards is intended to support the following five process goals for students: becoming mathematical problem solvers, communicating mathematically, reasoning mathematically, making mathematical connections, and using mathematical representations to model and interpret practical situations. Students requiring co-enrollment in Algebra II and Geometry may do so with principal approval.

General Course Sequence

231110 ALGEBRA I

Grades 9-10

1 Credit

Algebra I requires students to use algebra as a tool for representing and solving a variety of contextual problems. Students use tables and graphs to interpret algebraic expressions, equations, and inequalities and to analyze behaviors of functions. Additionally, students use a transformational approach to graphing functions and writing equations when given the graph of the equation to build a strong connection between algebraic and graphic representations of functions. Mathematical communication and reasoning are emphasized throughout the course.

232100 GEOMETRY

Grades 9-12

1 Credit

Prerequisite: Algebra I

Geometry is a course with an emphasis on developing reasoning skills through the explorations of geometric relationships including properties of geometric figures, trigonometric relationships, and mathematical proofs. There is an emphasis on two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. The course is designed to develop effective thinking methods through deductive reasoning. Mathematical communication and reasoning are emphasized throughout the course.

2321002 HONORS GEOMETRY

Grades 9-10

1 Credit

Prerequisite: Algebra I

This advanced course, designed to prepare students for both AP and IB courses, is an enriched Geometry curriculum with greater emphasis on proofs, logical reasoning and the application of theorems. Students study two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. Area and volume of regular polygons and special right triangles are some of the additional topics that students will learn. Mathematical communication and reasoning are emphasized throughout the course. This course is taught at an accelerated pace.

231120 ALGEBRA, FUNCTIONS, AND DATA ANALYSIS

Grades 10-12

1 Credit

Prerequisite: Algebra I

This course is designed for students who have successfully completed the standards for Algebra I and may benefit from additional support in their transition to Algebra II. Through the investigation of mathematical models and interpretation/analysis of data from relevant, applied contexts and situations, students will strengthen conceptual understandings in mathematics and further develop connections between algebra and statistics. Students will solve problems that require the formulation of linear, quadratic, exponential, or piecewise-defined equations or a system of equations. Mathematical communication and reasoning are emphasized throughout the course. Graphing utilities (calculators, computer, and other technology tools) will be used to assist in teaching and learning.

231210 ALGEBRA II

Grades 9-12

1 Credit

Prerequisite: Geometry or Algebra Functions, and Data Analysis

Algebra II expands and clarifies the concepts introduced in Algebra I. A thorough treatment of advanced algebraic concepts will be provided through the study of functions, equations, inequalities, systems of equations, polynomials, rational and radical equations, complex numbers, and curves of best fit. Emphasis will be placed on contextual applications and modeling throughout the course of study. These standards include a transformational approach to graphing functions. Transformational graphing uses translation, reflection, dilation, and rotation to generate a “family of functions” from a given “parent” function and builds a strong connection between algebraic and graphic representations of functions. Students will vary the coefficients and constants of an equation, observe the changes in

the graph of the equation, and make generalizations that can be applied to many graphs. Mathematical communication and reasoning are emphasized throughout the course.

2312102 HONORS ALGEBRA II

Grades 9-12

1 Credit

Prerequisite: Geometry

This advanced course, designed to prepare students for both AP and IB courses, is an enriched Algebra II curriculum with an in-depth study of equations and functions. A thorough treatment of advanced algebraic concepts will be provided through the study of functions, equations, inequalities, systems of equations, polynomials, rational and radical equations, complex numbers, and curves of best fit. Emphasis will be placed on contextual applications and modeling throughout the course of study. Students will vary the coefficients and constants of an equation, observe the changes in the graph of the equation, and make generalizations that can be applied to many graphs. Graphing rational and polynomial graphs with multiple transformations are just some of the additional topics students will learn. Mathematical communication and reasoning are emphasized throughout the course. This course is taught at an accelerated pace.

231610 ALGEBRA III WITH TRIGONOMETRY

Grades 11-12

1 Credit

Prerequisite: Algebra II

This course is designed for students who have successfully completed the standards for Algebra II and may benefit from additional support in their transition to Pre-calculus: Math Analysis with Trigonometry. Algebra III with Trigonometry reviews and extends the concepts taught in Algebra II and Geometry in preparation for the SAT and other Math Achievement tests. It includes topics on triangular and circular trigonometric functions, study of polynomials, quadratics, and exponential and logarithmic functions.

235500 DATA SCIENCE

Grades 10-12

1 Credit

Prerequisite: Algebra II

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

233120 PRE-CALCULUS: MATH ANALYSIS WITH TRIGONOMETRY

Grades 10-12

1 Credit

Prerequisite: Algebra II

Pre-calculus, designed to prepare students for both AP and IB mathematics courses, serves as appropriate preparations for a calculus course. This course covers the application of trigonometric functions and their relationships by the circular approach and by the triangular approach. Students will also work with exponential and logarithmic functions, sequences and series, vectors, parametric and polar coordinates, and limits.

234110 STATISTICS/PROBABILITY WITH DISCRETE TOPICS

Grades 11-12

1 Credit

Prerequisite: Algebra II

This course is designed for students who plan to enter such fields as business, education, economics, computers, psychology, sociology, medicine, etc., which require the organization and the interpretation of data to be successful in their jobs. This course will also provide a fundamental background for those students who plan careers in engineering, mathematics, or the sciences.

233210 CALCULUS**Grades 11-12****1 Credit*****Prerequisite: Algebra III with Trigonometry or Pre-calculus: Math Analysis with Trigonometry***

This course introduces students to the fundamentals of Calculus. Topics include functions, limits, derivatives, integrals, and the Fundamental Theorem of Calculus.

231000 Algebra Readiness**Grades 9-12****1 Elective Credit****Note: Students should be co-enrolled in Algebra I. Placement based on identified criteria.**

This elective course is designed to be taken concurrently with Algebra 1, forming an integrated instructional model that provides students with extended time and targeted support to master Algebraic concepts. Placement in the course is determined by a set of academic indicators that identify students who will benefit from a more scaffolded approach to Algebra 1.

Advanced Placement Courses

AP courses are college-level courses that prepare and encourage students to take the course's AP examination for possible college credit.

2341204 AP STATISTICS**Grades 11-12****1 Credit#*****Prerequisite: Algebra II***

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to exploring data, sampling and experimentation of data, anticipating patterns, and statistical inference. Summer assignments may be required.

2331204 AP PRE-CALCULUS**Grades 10-12****1 Credit#*****Prerequisite: Algebra II***

The objective of this course is to prepare students for the skills and level of rigor needed for successful study in calculus courses. This course presents topics in polynomial, rational, exponential, and logarithmic functions and systems of equations and inequalities. Students will also work on the topics of functions involving parameters, vectors, and matrices. The mathematical practices of procedural and symbolic fluency, multiple representations, and communication and reasoning are emphasized in this course.

2332204 AP CALCULUS AB**Grades 11-12****1 Credit#*****Prerequisite: AP Pre-Calculus or Pre-calculus: Math Analysis with Trigonometry***

AP Calculus AB addresses the theory and practice of differential and integral calculus of a function of one variable. Topics include functional analysis, limits, integration, continuity, the derivative and applications, and solving problems which deal with the rate of change. The content of this course is equivalent to most one-semester college calculus courses.

2332304 AP CALCULUS BC**Grades 11-12****1 Credit#*****Prerequisite: AP Pre-Calculus or Pre-calculus: Math Analysis with Trigonometry***

AP Calculus BC covers the same topics covered in AB Calculus. In addition, Calculus BC students will apply calculus techniques to polar curves, parametric equations, vector function sequences and series, and slope fields. The content of this course is equivalent to most two-semester college calculus courses. Students taking the AP Calculus BC exam will receive an AP Calculus AB subscore.

BPHS=Brooke Point CFHS=Colonial Forge HHS=Hartwood MVHS=Mountain View NSHS=North Stafford SHS=Stafford
#-Weighted Course

2361004 AP COMPUTER SCIENCE APPLICATIONS

Grades 10-12

1 Credit#

Prerequisite: Algebra II

The focus of this course is to provide students with a conceptual background in computer science. The major emphasis is on programming methodology, algorithms, and non-dynamic data structure in the JAVA language. Students will be prepared to take the year-end AP Computer Science Applications exam for possible college credit. Summer assignments may be provided.

Dual Enrollment Courses for Mathematics

Courses meeting the Uniform Certificate of General Studies (UCGS) are indicated within course descriptions.

2371006 DE QUANTITATIVE REASONING (MTH 154)

Grades 11-12

1 Credit#

Prerequisite: Algebra II

The semester-long course will provide students with an opportunity to complete six hours of college coursework. The first semester presents topics in proportional reasoning, modeling, financial literacy and validity studies (logic and set theory). Major emphasis is on the process of taking a real-world situation, identifying the mathematical foundation needed to address the problem, solving the problem and applying what is learned to the original situation. Students who successfully complete this course will receive credit from Germanna Community College. This course fulfills UCGS requirements.

2374006 DE STATISTICS (MTH 245)

Grades 11-12

1 Credit#

Prerequisite: Completion of MTH 154 with a C or higher and a current cumulative high school GPA of 3.0 or better

The semester-long course will provide students with an overview of statistics, including descriptive statistics, elementary probability, probability distributions, estimation, hypothesis testing, correlation, and linear regression. Students who successfully complete this course will receive credit from Germanna Community College. These courses fulfill UCGS requirements.

2331205 DE PRE-CALCULUS (MTH 161 and MTH 162)

Grades 10-12

1 Credit#

Prerequisite: Algebra II with a C or better and a current cumulative high school GPA of 3.0 or better

The purpose of this year-long course is to prepare students for the skills and level of rigor needed for successful study in calculus courses. This course presents topics in power, polynomial, rational, exponential, and logarithmic functions and systems of equations and inequalities. Students will also work on the topics of trigonometry, trigonometric applications including Law of Sines and Cosines, and an introduction to conics. Students who successfully complete this course will receive credit from Germanna Community College. These courses fulfill UCGS requirements.

2332306 DE CALCULUS I and II (MTH 263 and MTH 264)

Grades 11-12

1 Credit#

Prerequisite: DE Pre-calculus with a C or better or Pre-calculus: Math Analysis with Trigonometry with a grade of B or better in combination with a current cumulative high school GPA of 3.0 or better

The general purpose of this year-long course is to prepare students for further study in calculus with analytic geometry. The first semester of this course presents the concepts of limits, derivatives, differentiation of various types of functions and use of differentiation rules, application of differentiation, antiderivatives, integrals and applications of integration. The second semester continues the study of algebraic and transcendental functions including rectangular,

polar, and parametric graphing, indefinite and definite integrals, methods of integration and power series along with applications. Students who successfully complete this course will receive credit from Germanna Community College. These courses fulfill UCGS requirements.

2372006 DE LINEAR ALGEBRA (MTH 266)

Grades 11-12

1 Credit#

Prerequisite: DE Calculus II MTH 264 with a grade of C or better and a current cumulative high school GPA of 3.0 or better

This course includes the study of matrices, vector spaces, determinants, solutions of systems of linear equations, basis and dimension, eigenvalues, and eigenvectors. Students who successfully complete this course will receive credit from Germanna Community College. This is a first semester course that is to be taken with DE Differential Equations as a second semester course.

2373006 DE DIFFERENTIAL EQUATIONS (MTH 267)

Grades 11-12

1 Credit#

Prerequisite: DE Calculus II MTH 264 with a grade of C or better and a current cumulative high school GPA of 3.0 or better

This course introduces ordinary differential equations and includes the study of differential equations, second and higher order ordinary differential equations with applications and numerical methods. Students who successfully complete this course will receive credit from Germanna Community College. This is a second semester course that is to be taken with DE Linear Algebra as a first semester course.

Commonwealth Governor's School Courses

AP courses are college-level courses that prepare and encourage students to take the course's AP examination for possible college credit.

23123027 MATHEMATICS 9: HONORS ALGEBRA II

Grade 9

1 Credit

This course presents an in-depth study of algebra topics, including the study of linear and quadratic equations, functions and systems; irrational and complex numbers, matrix theory, conic sections, and polynomials; sequences and series; and probability. Students may take the SOL Algebra II test.

2322002 MATHEMATICS 10: HONORS GEOMETRY WITH TRIGONOMETRY

Grade 10

1 Credit

This course will consist of a range of geometry and trigonometry topics, including logic and deductive reasoning, angles, parallel lines, congruence and similarity, triangles, quadrilaterals, polygons, circles, trigonometric functions (triangular and circular), trigonometric identities, and applications of trigonometry. Students may take the Geometry SOL.

23312027 HONORS MATH ANALYSIS WITH DISCRETE TOPICS

Grades 10-11

1 Credit

This course will study functions and their properties, including exponential and logarithmic, rational, and trigonometric functions (triangular and circular). Trigonometric identities, applications of trigonometry, parametric equations, vectors, sequences, and series will also be explored. Discrete topics will include the mathematics of choice, management science, and growth and symmetry.

23312047 AP PRE-CALCULUS MATH ANALYSIS WITH TRIGONOMETRY

Grades 10-12

1 Credit#

Prerequisite: Honors Algebra II

The objective of this course is to prepare students for the skills and level of rigor needed for successful study in calculus courses. This course presents topics in polynomial, rational, exponential, and logarithmic functions and systems of equations and inequalities. Students will also work on the topics of functions involving parameters, vectors, and matrices. The mathematical practices of procedural and symbolic fluency, multiple representations, and communication and reasoning are emphasized in this course.

23322047 AP CALCULUS AB WITH SPECIAL TOPICS

Grade 11

1 Credit

This is a college-level calculus course. Students cultivate their understanding of differential and integral calculus through engagement with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions. Using traditional CGS methods, students will explore practical applications of content through problem-solving and project-based learning.

23323047 AP CALCULUS BC AND MULTIVARIABLE CALCULUS

Grade 12

1 Credit#

This course includes concepts and applications of differential and integral calculus, sequences and series, elementary differential equations, and using all of these skills with functions of more than one variable. Experiences with appropriate microcomputer software and graphing calculators are included. Summer assignments may be required.

23412047 AP STATISTICS

Grade 12

1 Credit#

This course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data: observing patterns and departures from patterns; Planning a Study: deciding what and how to measure; Anticipating Patterns: producing models using probability theory and simulation; Statistical Inference: confirming models. The course will follow the curriculum for the Advanced Placement Examination in Statistics. Summer assignments may be required.

International Baccalaureate Courses

Students will be prepared for and are encouraged to take the year-end IB examination for possible college credit.

Schools offering these courses: BPHS (through 2026-2027) and MVHS.

IB MATHEMATICS: APPLICATIONS AND INTERPRETATION (SL)

2351105 Grade 11

2351205 Grade 12

1 Credit per course#

Prerequisite: Algebra II for IB grade 11

Prerequisite: IB grade 11 for IB grade 12

This is a two-year IB math course for students with varied backgrounds and abilities. Skills needed for the demands of a technological society are developed, but specific technical expertise is not required. The course enables students to appreciate varied cultural and historical perspectives of mathematics. Topics: Numbers and Algebra, Functions, 3-dimensional Geometry and Trigonometry, Statistics and Probability, Introductory Differential and Integral Calculus with applications in optimizations. Students who are likely to need mathematics in pursuit of a science or mathematics major in college are advised to consider IB Mathematics Analysis or Application and Interpretation HL.

IB MATHEMATICS: ANALYSIS AND APPROACHES (SL)

2352105 Grade 11

2352205 Grade 12

1 Credit per course#***Prerequisite: Pre-calculus or Math Analysis with Trigonometry for IB grade 11******Prerequisite: IB year one for IB year two***

This 2-year IB math course sequence is designed for strong math students who are preparing for studies in subjects such as science, engineering, economics, technology, and architecture. The course enables students to appreciate varied cultural and historical perspectives of mathematics. The goal of this course is to provide students with a solid foundation of Algebra, Functions, 3-dimensional Geometry and Trigonometry, Statistics and Probability, and Differential and Integral Calculus to include optimization and kinematics.

IB MATHEMATICS: APPLICATIONS AND INTERPRETATION (HL)

2353105 Grade 11

2353205 Grade 12

1 Credit per course#***Prerequisite: Pre-calculus or Math Analysis with Trigonometry******Prerequisite: IB grade 11 for IB grade 12***

This 2-year IB math course is designed for studies in subjects such as science, medicine, psychology and technology. Skills needed for the demands of a data-driven society are developed. The course enables students to appreciate varied cultural and historical perspectives of mathematics. Topics: Number and Algebra (to include complex numbers, matrices, and systems), Functions (to include fitting models to data), 3-dimensional Geometry and Trigonometry with vectors, Statistics and Probability (to include hypothesis testing and confidence intervals), Differential and Integral Calculus with applications in optimizations, kinematics, and differential equations.

IB MATHEMATICS: ANALYSIS AND APPROACHES (HL)

2354105 Grade 11

2354205 Grade 12

1 Credit per course#***Prerequisite: Pre-calculus or Math Analysis with Trigonometry.******Prerequisite: IB grade 11 for IB grade 12***

This 2-year IB math course is designed for strong math students who are preparing for studies in subjects such as science, engineering, economics, technology, and architecture. The course enables students to appreciate varied cultural and historical perspectives of mathematics. The goal of this course is to provide students with a solid foundation of Algebra (to include complex numbers and systems) Functions (to include solving both graphically and analytically), 3-dimensional Geometry and Trigonometry (to include inverse and reciprocal trig functions, and vector applications of lines and planes), Statistics and Probability (to include Bayes' Theorem and probability distributions), and Differential and Integral Calculus (to include optimization, kinematics, differential equations and Maclaurin series).

Science Courses

High school science courses play an important, unique and essential role in today's ever-changing world. Students' knowledge of earth, space, life and physical sciences is critical to becoming scientifically literate citizens. All science courses are laboratory and activity- oriented to develop these important skills. Course sequencing may begin with any level one laboratory science listed below.

General Courses

331000 EARTH SCIENCE

Grades 9-12

1 Credit

NOTE: Students may be concurrently enrolled in Biology.

The Earth Science standards focus on the complex nature of the Earth system, including Earth's composition, structure, processes, and history; its atmosphere, fresh water, and oceans; and its environment in space as a set of complex, interacting and overlapping systems. The standards emphasize the nature of science as students learn about the development of scientific thought about Earth and space. Lab work includes the interpretation of maps, charts, tables, and profiles; the use of technology to collect, analyze, and report data; and the utilization of science skills in systematic investigation.

331002 HONORS EARTH SCIENCE

Grades 9-12

1 Credit

NOTE: Students may be concurrently enrolled in Biology.

This advanced course, designed as a pre-AP and pre-IB course, explores the complex nature of the Earth system, including Earth's composition, structure, processes, and history; its atmosphere, fresh water, and oceans; and its environment in space as a set of complex, interacting and overlapping systems for entrance into college, AP, and/or IB courses. The standards emphasize the nature of science as students learn about the development of scientific thought about Earth and space. Lab work and independent research will include the interpretation of maps, charts, tables, and profiles; the use of technology to collect, analyze, and report data; and the utilization of science skills in systematic investigation.

331300 ENVIRONMENTAL SCIENCE

Grades 9-12

1 Credit

This course is designed to integrate the study of many components of our environment, including the human impact on our planet. These outcomes focus on scientific inquiry, the physical world, the living environment, resource conservation, humans' impact on the environment, and legal and civic responsibility. Instruction will build science literacy through inquiry, student data collection and analysis using appropriate tools, laboratory experiences, and field work including a meaningful watershed experience. This course can serve as a level one course for both Earth and Biology related level two elective courses.

332100 BIOLOGY

Grades 9-10

1 Credit

NOTE: Students may be concurrently enrolled in Earth Science.

This in-depth course is designed to provide students with a detailed understanding of living systems. Students investigate biochemical life processes, cellular organization, mechanisms of inheritance, dynamic relationships among organisms, and the change in organisms through time. Skills necessary to examine scientific explanations, conduct experiments, analyze and communicate information, and gather and use information in scientific literature are practiced. The importance of scientific research that validates or challenges ideas is emphasized at this level.

3321002 HONORS BIOLOGY

Grades 9-10

1 Credit

NOTE: Students may be concurrently enrolled in Earth Science.

This advanced course, designed as a pre-AP and IB course, investigates biochemical life processes, cellular organization, mechanisms of inheritance, dynamic relationships among organisms, and the change in organisms through time for entrance into college, AP, and/or IB courses. Skills necessary to examine scientific explanations, conduct experiments, analyze and communicate information, and gather and use information in scientific literature are integral components. There is strong emphasis on lab work and independent research to validate or challenge ideas is emphasized at this level. Instruction will provide more detailed labs and projects with tools and technology including: calculators, computers, probes and sensors, and microscopes are used when feasible.

333100 CHEMISTRY

Grades 10-12

1 Credit

Prerequisite: Algebra II or concurrent enrollment

This course is designed to introduce the student to the basic theories of chemistry. Topics include formula writing, balancing equations, solutions, acids and bases, dimensional analysis, reactions, electron configuration, atomic theory, molar concept, gas laws, and basic organic chemistry. Lab work is an integral part of this course.

3331002 HONORS CHEMISTRY

Grades 10-12

1 Credit

Prerequisite: Algebra II or concurrent enrollment

The advanced chemistry course, designed as a pre- AP and IB course, is a fast-paced course that explores, in depth, chemistry concepts and the scientific process in preparation for entrance into college, AP, and/or IB courses. There is strong emphasis on lab work and independent research. The instruction will provide more detailed labs and projects. Students might be required to design and conduct an independent research project. The major skills used by practicing chemists are emphasized.

334100 PHYSICS

Grades 10-12

1 Credit

Prerequisite: Algebra II or concurrent enrollment

This course covers the laws of mechanics, electricity and magnetism, electro-magnetic wave theory, elementary nuclear physics and relativity. It requires competence in the metric system and conversions, scientific notation, and manipulation of algebraic equations.

3341002 HONORS PHYSICS

Grades 10-12

1 Credit

Prerequisite: Algebra II or concurrent enrollment

This advanced physics class is a fast-paced course, designed as a pre-AP and IB course that explores the following topics in depth: mechanics, waves, thermal, electricity and magnetism. Students are expected to use the scientific method to design labs. There is strong emphasis on lab work and independent research. Students must be able to solve an equation for an unknown, perform metric conversions, comfortable with use of a graphing calculator, analyze data and synthesize outcomes. This course is strongly recommended for those who wish to pursue a degree in engineering or science.

Advanced Placement Courses

AP courses require that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices. AP courses are college-level courses that prepare and encourage students to take the course's AP examination for possible college credit.

3321004 AP BIOLOGY**Grades 10-12****1 Credit#****Note: This course may not be audited.****Prerequisite: *Biology and Chemistry***

This course is the equivalent of a two-semester college introductory biology course. The course follows the AP College Board criteria addressing three general areas of study: molecules and cells, heredity and evolution, and organism and populations. The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process.

332100L4 AP BIOLOGY LAB**Grades 10-12****1 Lab Credit**

This AP Science course may be offered with a separate lab period. Students will not receive a weighted grade for the lab and will count as an elective credit.

3331004 AP CHEMISTRY**Grades 11-12****1 Credit#****Note: This course may not be audited.****Prerequisite: *Algebra II and Chemistry***

This course is equivalent to a college introductory chemistry course. Emphasis will be placed on chemical calculations, the mathematical formulations of principles, and laboratory work.

333100L4 AP CHEMISTRY LAB**Grades 11-12****1 Lab Credit**

This AP Science course may be offered with a separate lab period. Students will not receive a weighted grade for the lab and will count as an elective credit.

3341004 AP PHYSICS 1**Grades 11-12****1 Credit#****Note: This course may not be audited.****Prerequisite: *Geometry***

This course is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills.

3342004 AP PHYSICS 2**Grade 12****1 Credit#****Note: This course may not be audited.****Prerequisite: *Pre-calculus or concurrent enrollment***

This course is an algebra-based, introductory college-level physics course that explores topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields, electromagnetism; physical and geometric optics; and quantum atomic, and nuclear physics. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills.

3313004 AP ENVIRONMENTAL SCIENCE

Grades 10-12

1 Credit#

Note: This course may not be audited.

Prerequisite: Two laboratory sciences and Algebra I

This course is designed to provide students with the methodologies required to understand the interrelationships of the natural world, identify and analyze both natural and human-made environmental problems, evaluate relative risks and examine alternative solutions for resolving these problems.

Dual Enrollment Courses for Science

Courses meeting the Uniform Certificate of General Studies (UCGS) are indicated within course descriptions.

3321006 DE BIOLOGY (BIO 101-102)

Grades 11-12

1 Credit#

Dual Enrollment Biology is an accelerated course that explores fundamental characteristics of living matter from the molecular level to the ecological community with emphasis on biological principles. The course provides lab experiences in handling, constructing, and manipulating materials in a safe manner and develops abilities to measure, organize, and communicate scientific information. Students who successfully complete the course will receive eight college credits through Germanna Community College and one year of high school credit. These courses fulfill UCGS requirements.

3331006 DE CHEMISTRY (CHM 111-112)

Grades 11-12

1 Credit#

Prerequisite: Completion of Algebra II with a C or better and a cumulative high school GPA of 3.0 or higher

Dual Enrollment Chemistry is a college level course that explores the fundamental laws, theories, and mathematical concepts of chemistry. It is designed primarily for science and engineering majors. Students who successfully complete the course will receive eight college credits through Germanna Community College and one year of high school credit. Students who have received a high school Chemistry credit may also receive credit for successful completion of Dual Enrollment Chemistry. These courses fulfill UCGS requirements.

3313006 DE ENVIRONMENTAL SCIENCE (ENV 121-122)

GRADES 11-12

1 Credit#

Dual Enrollment Environmental Science is a college level course that explores the fundamental components and interactions that make up the natural systems of the earth. It is designed for both science and non-science majors and introduces the basic science concepts in the disciplines of biological, chemical, and earth sciences that are necessary to understand and address environmental issues. Students who successfully complete the course will receive eight college credits through Germanna Community College and one year of high school credit. These courses fulfill UCGS requirements.

3341006 DE PHYSICS (PHY 201-202)

Grades 11-12

1 Credit#

Note: This course may not be audited.

Prerequisite: Geometry

Dual Enrollment Physics is a college level course that covers classical mechanics and thermodynamics. Included in this course is the study of kinematics, Newton's law of motion, work, energy, momentum, rotational kinematics, dynamic and static equilibrium, elasticity, gravitation, fluids, simple harmonic motion, calorimetry, ideal gas law, and the laws of thermodynamics. Students who successfully complete the course will receive eight college credits through Germanna Community College and one year of high school credit. These courses fulfill UCGS requirements.

Dual Enrollment Lab Courses for Science

The 2026–2027 Program of Studies was revised on February 19, 2026, to include the following DE lab courses in Science. See the page above for additional DE Science course descriptions.

3321006L DE BIOLOGY LAB (BIO 101-102)

Grades 11-12

1 Lab Credit

This DE Science Lab course is offered in conjunction with DE Biology (BIO 101-102) and as a separate lab period. Students will not receive a weighted grade for the lab and will count as an elective credit.

3331006L DE CHEMISTRY LAB (CHM 111-112)

Grades 11-12

1 Lab Credit

This DE Science Lab course is offered in conjunction with DE CHEMISTRY (CHM 111-112) and as a separate lab period. Students will not receive a weighted grade for the lab and will count as an elective credit.

3313006L DE ENVIRONMENTAL SCIENCE LAB (ENV 121-122)

Grades 11-12

1 Lab Credit

This DE Science Lab course is offered in conjunction with DE ENVIRONMENTAL SCIENCE (ENV 121-122) and as a separate lab period. Students will not receive a weighted grade for the lab and will count as an elective credit.

334100L6 DE PHYSICS LAB (PHY 201-202)

Grades 11-12

1 Lab Credit

This DE Science Lab course is offered in conjunction with DE PHYSICS (PHY 201-202) and as a separate lab period. Students will not receive a weighted grade for the lab and will count as an elective credit.

Commonwealth Governor's School Courses

AP courses are college-level courses that prepare and encourage students to take the course's AP examination for possible college credit.

33130047 SCIENCE 9: AP ENVIRONMENTAL SCIENCE

Grade 9

1 Credit#

Prerequisite: Geometry or concurrent enrollment

This course is designed to provide students with the methodologies required to understand the interrelationships of the natural world, identify and analyze both natural and human-made environmental problems, evaluate relative risks and examine alternative solutions for resolving these problems. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.

33210047 SCIENCE 10: AP BIOLOGY

Grade 10

1 Credit#

This course is equivalent to a college introductory biology course. The course follows the AP College Board criteria addressing three general areas of study: molecules and cells, heredity and evolution, and organism and populations. The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.

33310067 SCIENCE 11: DE CHEMISTRY (CHM 101)

Grade 11

1 Credit#

Dual Enrollment Chemistry is a college level course that explores the fundamental laws, theories, and mathematical concepts of chemistry. It is designed primarily for science and engineering majors. Students who successfully complete the course will receive four credit hours of college credit through Richard Bland College and one year of high school credit. Students who have received a high school Chemistry credit may also receive credit for successful completion of Dual Enrollment Chemistry.

33410047 SCIENCE 12: AP PHYSICS 1

Grade 12

1 Credit#

This course is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.

International Baccalaureate Courses

Students will be prepared and are encouraged to take the year-end IB examination for possible college credit.

Schools offering these courses: BPHS (through 2026-2027) and MVHS.

IB BIOLOGY (HL)

3321705 Grade 11

3321805 Grade 12

1 Credit per Course#

Prerequisite: Biology or Honors Biology, and Chemistry or Honors Chemistry for IB grade 11

Prerequisite: IB grade 11 for IB grade 12

IB Biology is a two-year course that provides an overview of the major principles and processes in the areas of molecular and cellular biology, genetics, ecology, and organisms. Laboratory work is an integral part of this course and students are required to submit written laboratory reports. Key points of the first year are structure and function,

BPHS=Brooke Point CFHS=Colonial Forge HHS=Hartwood MVHS=Mountain View NSHS=North Stafford SHS=Stafford
#-Weighted Course

universality versus diversity, and equilibrium within systems. The second year provides an introduction to advanced anatomy and physiology and plant biology.

3321605 IB BIOLOGY 12 (SL)

Grade 12

1 Credit#

Prerequisite: IB Biology 11 (SL)

This is the second year in a two-year course that continues from the overview of major principles and processes in the areas of molecular and cellular biology, genetics, ecology, and organisms. Students will design and implement their own laboratory investigations and participate in the interdisciplinary Group 4 science research project. The second year provides a focus on ecology, neurobiology, biotechnology, and physiology.

Schools offering course: BPHS

IB CHEMISTRY (HL)

3331705 Grade 11

3331805 Grade 12

1 Credit per Course#

Prerequisite: Biology or Honors Biology and Chemistry or Honors Chemistry for IB grade 11

Prerequisite: IB grade 11 for IB grade 12

IB Chemistry is a two-year course that provides an overview of the major principles and processes in the areas of stoichiometric relationships, atomic structure, periodicity, chemical bonding and structure, energetics/thermochemistry, chemical kinetics, equilibrium, acids and bases, redox processes, organic chemistry, measurement, and data processing. The second year provides atomic structure, the periodic table—the transition metals, chemical bonding and structure, energetics/thermochemistry, chemical kinetics, equilibrium, acids and bases, redox processes, organic chemistry, measurement, and analysis.

IB PHYSICS (SL)

3341505 Grade 11

3342505 Grade 12

1 Credit per Course#

Prerequisite: Algebra II

Prerequisite: IB grade 11 for IB grade 12

This is a two-year course sequence that covers a core of physics topics, such as measurements and uncertainties, mechanics, circular motion and gravitation, electromagnetism and waves, thermal physics, energy production, atomic, nuclear, and particle physics, and at least one of the following optional topics: relativity, engineering physics, imaging, or astrophysics. Emphasis is on problem-solving, proficiency in mathematical usage, and improvement and expansion of laboratory techniques as related to contemporary physics, including experimental design.

3313005 IB ENVIRONMENTAL SYSTEMS AND SOCIETIES (SL)

Grades 11-12

1 Credit#

Prerequisite: Two years of high school science.

This one-year course enables students to develop a coherent perspective on the environment. This course uses the concepts and terminology associated with a system approach to study. These principles are subsequently applied to the study of natural ecosystems, their component parts, along with functional relationships that maintain their dynamic integrity. Topics include global cycles and physical systems, human population, freshwater ecosystems, conservation and biodiversity, and pollution.

IB ENVIRONMENTAL SYSTEMS AND SOCIETIES (HL)

3313105 Grade 11

3313205 Grade 12

1 Credit per course#

Prerequisite: Two years of high school science.

Prerequisite: IB grade 11 for IB grade 12

This two-year interdisciplinary course examines the deeper relationship and interaction between the environment,

individuals, and societies. Students will inquire and investigate the relationships involved in the environmental system including ecosystem dynamics, atmospheric and oceanic physics, and hydrological systems. Topics studied will include climate change, biodiversity loss, and food security giving students insight into understanding the mechanics and purpose of human constructed systems and the function of natural ones. Additional modules may include environmental law, environmental and ecological economics, and environmental ethics.

Science Elective Courses

Students must complete an Earth Science, Biology, and/or Chemistry Level I laboratory science course before enrolling in a corresponding Level II course.

332300 BIOLOGY II: ECOLOGY

Grades 11-12

1 Credit

Note: Students may be concurrently enrolled in Earth Science

Prerequisite: *Biology or Environmental Science*

This course is designed for students to investigate environmental phenomenon, principles, and how human activities impact Earth. Laboratory experiments, STEM and field investigations are used to teach conceptual themes through process skills to build science literacy and responsible resource stewardship. Students are required to submit written laboratory reports and to design and conduct an investigation whether in small groups or as an individual.

332200 BIOLOGY II: ANATOMY AND PHYSIOLOGY

Grades 11-12 (may be offered in Grade 10, if prerequisites have been met)

1 Credit

Prerequisite: *Biology*

Recommended Prerequisite: *Concurrent enrollment in Chemistry*

This is an advanced course which covers anatomy, physiology, and the pathology of humans. It is designed primarily for the student anticipating a medical career or life science major in college. Lab emphasis is on dissection and microscope use.

331100 EARTH SCIENCE II: GEOLOGY

Grades 10-12

1 Credit

Note: Students may be concurrently enrolled in Biology.

Prerequisite: *Earth Science or Environmental Science*

This is an in-depth course dealing with the physical and historical aspects of the Earth most suited for students who have a strong interest in science. Emphasis will be placed on those geological processes and features that govern the Earth. Extensive laboratory experiences and occasional field excursions are provided to enhance the students understanding and application of the course material.

331200 EARTH SCIENCE II: OCEANOGRAPHY

Grades 11-12

1 Credit

Prerequisite: *Earth Science or Environmental Science*

In this course the theories of Earth's structure and plate tectonics will be presented as a base on which to build the explanation of the physical features of the ocean floor. Historical and physical geology of the ocean floor will be investigated. Students will study the physical properties of seawater, marine chemistry, marine organisms, salinity and density, circulation with the oceans, waves, currents, tides, and oceanographic instruments and research. Emphasis will be placed on the major skills of practicing oceanographers and scientists. Students will be required to submit written laboratory reports and to design and conduct investigations in small groups, as an individual, or as a class.

331001 GEOSYSTEMS

Grade 9

1 Elective Credit

This foundational course introduces students to the dynamic interactions of Earth's systems while building connections to aerospace, geospatial technologies, logistics, and sustainable energy. Through an interdisciplinary lens, students explore core concepts from earth science, geology, environmental science, and geography, with an emphasis on human-environment interactions and global sustainability. Students will investigate topics such as Earth's structure and processes, weather and climate systems, natural resources, and environmental change, while learning to apply Geographic Information Systems (GIS) and geospatial tools to real-world challenges. Hands-on labs, data analysis, and project-based learning experiences will help students develop critical thinking and problem-solving skills relevant to 21st-century STEM pathways. As the anchor course for the Specialty Center, Geosystems provides the scientific and technical foundation students will draw upon in advanced studies in aerospace, geospatial technologies, logistics, and sustainable energy.

Schools offering course: NSHS

World Language Courses

World language study is highly recommended for all students. The ability to speak a world language is a valuable asset for personal and professional growth. The study of world languages fosters respect for cultural diversity while enhancing communication skills that are essential in a global context. World languages courses meet elective credit requirements for the Standard Diploma. For the Advanced Studies Diploma, students must complete either three years of one language or two years of two different languages.

General Courses

American Sign Language

834100 AMERICAN SIGN LANGUAGE LEVEL I

Grades 10-12

1 Credit

This course is designed to give students a foundation of sign language and the culture of the deaf community. Students will learn appropriate behaviors, showing awareness of and respect for deaf and hard of hearing culture. Deaf and hard of hearing culture is taught through discussions, activities, reading, and videos. This is a performance-based course with an emphasis on vocabulary and grammatical skills through the use of the language. Immersion strategies are used in this course.

834200 AMERICAN SIGN LANGUAGE LEVEL II

Grades 10-12

1 Credit

Prerequisite: American Sign Language I

Students continue to hone their American Sign Language skills. They will add to their vocabulary and increase proficiency in grammatical features and conversational skills. Knowledge and sensitivity to deaf culture and the deaf community will continue to be emphasized. Immersion strategies are used in this course.

834300 AMERICAN SIGN LANGUAGE LEVEL III

Grades 10-12

1 Credit

Prerequisite: American Sign Language II

The course includes vocabulary-building and mastery of grammar through rigorous receptive and expressive language activities. This course includes receptive and expressive readiness activities, sign vocabulary, ASL grammar structure, receptive and expressive fingerspelling, conversational behaviors and various aspects of deaf culture. Immersion strategies are used in this course.

French

835100 FRENCH LEVEL I

Grades 8-12

1 Credit

Students gain an understanding of the components of a world language and of the study skills necessary to learn a world language. As students begin to develop proficiency skills in listening, speaking, reading, and writing, they engage in active practice in real-life situations and in a variety of cultural contexts.

835200 FRENCH LEVEL II

Grades 9-12

1 Credit

Prerequisite: French Level I

Students continue to develop skills in listening, speaking, reading, and writing and to engage in active practice in

real-life situations with the goal of increased proficiency in the language. Cultural study of the areas of the world where the language is spoken is expanded.

835300 FRENCH LEVEL III

Grades 9-12

1 Credit

Prerequisite: French Level II

Students complete their study of basic grammar and vocabulary and continue to learn to communicate in real-life situations with increasing precision and accuracy. Culture is woven into this course as students explore the use of the language in a wide range of cultural contexts.

835400 FRENCH LEVEL IV

Grades 10-12

1 Credit

Prerequisite: French Level III

Students will use the language to engage in a variety of activities which focus on the production of more advanced and precise language in real-world situations. Students will make oral and written presentations in the target language on a variety of more complex social and cultural topics. Immersion strategies will be utilized and students will be expected to use the target language on a daily basis in everyday classroom conversation.

German

836100 GERMAN LEVEL I

Grades 8-12

1 Credit

Students gain an understanding of the components of a world language and of the study skills necessary to learn a world language. As students begin to develop proficiency skills in listening, speaking, reading, and writing, they engage in active practice in real-life situations and in a variety of cultural contexts.

836200 GERMAN LEVEL II

Grades 9-12

1 Credit

Prerequisite: German Level I

Students continue to develop skills in listening, speaking, reading, and writing and to engage in active practice in real-life situations with the goal of increased proficiency in the language. Cultural study of the areas of the world where the language is spoken is expanded.

836300 GERMAN LEVEL III

Grades 9-12

1 Credit

Prerequisite: German Level II

Students complete their study of basic grammar and vocabulary and continue to learn to communicate in real-life situations with increasing precision and accuracy. Culture is woven into this course as students explore the use of the language in a wide range of cultural contexts.

836400 GERMAN LEVEL IV

Grades 10-12

1 Credit

Prerequisite: German Level III

Students use the language to engage in a variety of activities which focus on the production of more advanced and precise language in real-world situations. Students will make oral and written presentations in the target language on a variety of more complex social and cultural topics. Immersion strategies will be utilized and students will be expected to use the target language on a daily basis in everyday classroom conversation.

Latin

837100 LATIN LEVEL I

Grades 8-12

1 Credit

Students are introduced to the basic vocabulary and grammar system of the language. Roman life, history, mythology, and English derivations are integral parts of the course.

837200 LATIN LEVEL II

Grades 9-12

1 Credit

Prerequisite: Latin Level I

Students continue to study vocabulary, grammar, Roman culture, and etymology. A major objective is to have students successfully read and interpret increasingly difficult Latin passages.

837300 LATIN LEVEL III

Grades 9-12

1 Credit

Prerequisite: Latin Level II

Students complete the study of basic Latin grammar to include vocabulary, grammar, and etymology. Students continue to build their knowledge of Roman culture and improve their Latin reading skills through a variety of selections from classical authors.

837400 LATIN LEVEL IV

Grades 10-12

1 Credit

Prerequisite: Latin Level III

Students will deepen their understanding of Latin literature and culture by reading and analyzing original works by classical authors. Latin IV is an advanced language course designed for students who have mastered foundational Latin grammar and vocabulary.

Spanish

838100 SPANISH LEVEL I

Grades 8-12

1 Credit

Students gain an understanding of the components of a world language and of the study skills necessary to learn a world language. As students begin to develop proficiency skills in listening, speaking, reading, and writing, they engage in active practice in real-life situations and in a variety of cultural contexts.

838200 SPANISH LEVEL II

Grades 9-12

1 Credit

Prerequisite: Spanish Level I

Students continue to develop skills in listening, speaking, reading, and writing and to engage in active practice in real-life situations with the goal of increased proficiency in the language. Cultural study of the areas of the world where the language is spoken is expanded.

838300 SPANISH LEVEL III

Grades 9-12

1 Credit

Prerequisite: Spanish Level II

Students deepen their understanding of the components of a world language while building the study skills necessary for language acquisition. As they continue to develop proficiency in listening, speaking, reading, and writing, students engage in more advanced, active practice in real-world situations and across diverse cultural contexts. This level is designed to help students become more confident and effective communicators, preparing them to navigate our increasingly international world with greater ease and cultural awareness.

838400 SPANISH LEVEL IV

Grades 10-12

1 Credit

Prerequisite: Spanish Level III

Students use the language to engage in a variety of activities which focus on the production of more advanced and precise language in real-world situations. Students will make oral and written presentations in the target language on a variety of more complex social and cultural topics. Immersion strategies will be utilized and students will be expected to use the target language on a daily basis in everyday classroom conversation.

838120 SPANISH FOR FLUENT SPEAKERS LEVEL I

Grades 8-12

1 Credit

Note: Students will take an assessment to ensure proper placement according to prior knowledge and study of Spanish.

This course is intended for heritage, native speakers, or those who have obtained a high level of proficiency in Spanish including the ability to read and write in the language. This course will be taught in Spanish. The goal of the course is to provide students the opportunity to develop and practice their oral and written communication skills through the study of Hispanic culture, literature, and history. This course is intended to build a sense of community among the schools' advanced speakers of the language.

838220 SPANISH FOR FLUENT SPEAKERS LEVEL II

Grades 9-12

1 Credit

Note: Students will take an assessment to ensure proper placement according to prior knowledge and study of Spanish.

Prerequisite: Spanish for Fluent Speakers I

This course offers a second level of formal study for proficient Spanish speaking students. There will be a focus on the instruction of advanced Spanish literacy skills. Students will learn more about the language, literature, and cultural heritage while focusing on reading, writing, vocabulary development, and participating in consciousness-raising activities about Spanish language, identity and culture.

838320 SPANISH FOR FLUENT SPEAKERS LEVEL III

Grades 10-12

1 Credit

Prerequisite: Spanish for Fluent Speakers II

This course offers a third level of formal study for native, heritage, or fluent Spanish-speaking students. This course focuses on the development of advanced communicative competence in reading, writing, speaking and listening in Spanish. Students will also continue to develop awareness and understanding of Hispanic cultures, including language variation, customs, geography, history, literature, and current events. Upon completion of this course, students may progress into DE Spanish, AP Spanish Language, or IB Spanish.

Advanced Placement Courses

AP courses are college-level courses that prepare and encourage students to take the course's AP examination for possible college credit.

8357004 AP FRENCH**Grades 11-12****1 Credit#*****Prerequisite: French Level IV or Level III with teacher approval***

AP French is an advanced, sequential course designed to develop proficiency in the language motivated students. Students will be expected to master all course objectives in a rigorous and accelerated manner. The course is taught in the target language and emphasizes communication through the use of authentic materials.

8366004 AP GERMAN**Grades 11-12****1 Credit#*****Prerequisite: German Level IV or Level III with teacher approval***

AP German is an advanced, sequential course designed to develop proficiency in the language. Students will be expected to master all course objectives in a rigorous and accelerated manner. The course is taught in the target language and emphasizes communication through the use of authentic materials.

8376004 AP LATIN (Virgil)**Grades 11-12****1 Credit#*****Prerequisite: Latin Level IV or Level III with teacher approval***

AP Latin is an advanced course designed for students who wish to deepen their understanding of the Latin language and Roman culture and includes an in-depth study of the texts prescribed by the College Board.

8387004 AP SPANISH**Grades 11-12****1 Credit#*****Prerequisite: Spanish Level IV or Level III with teacher approval or Spanish for Fluent Speakers III***

AP Spanish is an advanced, sequential course designed to develop proficiency in the language. Students will be expected to master all course objectives in a rigorous and accelerated manner. The course is taught in the target language and emphasizes communication through the use of authentic materials.

Dual Enrollment Courses for World Languages

Courses meeting the Uniform Certificate of General Studies (UCGS) are indicated within course descriptions.

8354006 DE INTERMEDIATE FRENCH IV (FRE 201 and 202)**Grades 11-12****1 Credit#*****Prerequisite: French level III***

This course continues to develop understanding, speaking, reading, and writing skills. It enables students to achieve proficiency at or above the Intermediate-mid level as defined by the ACTFL (American Council on the Teaching of Foreign Languages) Proficiency guidelines. In keeping with the National Standards for Foreign Language Education, culture is embedded in this language course. The course will be taught in the target language. These courses fulfill UCGS requirements

8364006 DE INTERMEDIATE GERMAN IV (GER 201 and 202)**Grades 11-12****1 Credit#*****Prerequisite: German level III***

This course continues to develop understanding, speaking, reading and writing skills. It enables students to achieve proficiency at or above the Intermediate-mid level as defined by the ACTFL (American Council on the Teaching of Foreign Languages) Proficiency Guidelines. In keeping with the National Standards for Foreign Language Education, culture is embedded in this language course. The course will be taught in the target language. These courses fulfill UCGS requirements

8384006 DE INTERMEDIATE SPANISH IV (SPA 201 and 202)**Grades 11-12****1 Credit#*****Prerequisite: Spanish level III or Spanish for Fluent Speakers III***

This course continues to develop understanding, speaking, reading, and writing skills. It enables students to achieve proficiency at or above the Intermediate-mid level as defined by the ACTFL (American Council on the Teaching of Foreign Languages) Proficiency Guidelines. In keeping with the National Standards for Foreign Language Education, culture is embedded in this course. The course will be taught in the target language. These courses fulfill UCGS requirements

International Baccalaureate Courses

Students will be prepared and are encouraged to take the year-end IB examination for possible college credit. Schools offering these courses: BPHS (through 2026-2027) and MVHS.

8384005 IB SPANISH B IV (SL)**8354005 IB FRENCH B IV (SL)****8364005 IB GERMAN B IV (SL)****Grades 10-11****1 Credit per Course#*****Prerequisite: Target language level III or SFS III***

This course is the first year of a two-year advanced sequence that is designed to strengthen fluency and proficiency in both oral and written world languages. The aim is for students to be able to speak the language with sufficient accuracy and fluency to participate in formal and informal conversations with ease. The course includes an in-depth study of various authentic texts and media on issue-related themes. Through oral presentation, individual and group projects, and written assignments, self-expression will be encouraged. The course will be taught in the target language.

Schools offering course: MVHS**8385105 IB SPANISH B V (SL)****8355105 IB FRENCH B V (SL)****8365105 IB GERMAN B V (SL)****Grades 11-12****1 Credit per Course#*****Prerequisite: IB target language B IV course***

This course is the second year of a two-year advanced sequence that is designed to strengthen fluency and proficiency in both oral and written world languages. The aim is for students to be able to speak the language with sufficient accuracy and fluency to participate in formal and informal conversations with ease. The course includes an in-depth study of various authentic texts and media on issue-oriented themes. Through oral presentation, individual and group projects, and written assignments, self-expression will be encouraged. The course will be taught in the target language.

Schools offering course: BPHS, MVHS**8385205 IB SPANISH B V (HL)****8356205 IB FRENCH B V (HL)****8365205 IB GERMAN B V (HL)****Grade 11-12****1 Credit per Course#*****Prerequisite: IB target language B IV course***

This course is the second year of a two-year advanced sequence that is designed to strengthen fluency and proficiency in both oral and written world languages. The aim is for students to be able to speak the language with sufficient accuracy and fluency to participate in formal and informal conversations with ease. The course includes an in-depth study of various authentic texts and media. Students will read several pieces of literature as part of this course. Written tasks will be based on the literature read. Through oral presentation, individual and group projects, and written assignments, self-expression will be encouraged. The course will be taught in the target language.

Schools offering course: BPHS, MVHS

IB LATIN (SL)**8374105 Grade 11****8374205 Grade 12****1 Credit per Course#*****Prerequisite: Latin Level III for IB year one******Prerequisite: IB year one for IB year two***

In this two-year course, selected passages from prescribed authors and topics in Latin will be read. Written assessments will include externally assessed translations of particular passages demonstrating an understanding of the author's intent and style, and student-chosen topics that reflect an awareness of context and connections within and with other literature and cultures.

Schools offering course: BPHS**IB SPANISH AB INITIO (SL)****8385305 Grade 10-11****1 Credit per Course#****8385405 Grade 11-12****2 Credit per Course#*****Prerequisite: IB Ab Initio year 1 for IB year 2***

This is a two-year intensive study of Spanish language through the study of language, themes, and texts. Communication is evidenced through receptive, productive, and interactive skills across a range of contexts and purposes that are appropriate to the level of the course. Spanish Ab Initio is organized into five prescribed themes: identities, experiences, human ingenuity, social organization, and sharing the planet. This course is designed for students with little or no prior Spanish language experience.

Schools offering course: MVHS

Visual and Performing Arts Courses

These courses count toward the “Fine and Practical Arts” graduation credit. All courses may not be offered at all schools due to enrollment and availability. The Visual and Performing Arts programs provide students with a sequential, comprehensive curriculum in the arts. These courses teach students the skills and concepts needed for classroom success and practical application in the real world. The arts help students learn to creatively solve problems, make decisions, build self-confidence, and develop informed perceptions, while exploring a means for self-expression and supporting social-emotional learning. Emphasis is placed on the artistic process including performing, presenting, producing, responding, and creating. Students gain an appreciation and awareness of different cultures and styles throughout history.

Visual Arts

533100 ART I
Grades 9-12
1 Credit

In this foundation course, emphasis is placed on the Elements of Art and Principles of Design. Students use the elements and principles to guide and demonstrate their application of materials and ideas, and talk about artwork they have seen and made. Drawing, painting, graphics, and 3-D activities comprise the curriculum with an emphasis on design and composition in each area.

533200 ART II
Grades 10-12
1 Credit
Prerequisite: Art I

In this intermediate course, students continue to refine their skill set with emphasis on individual problem solving and in-depth analysis of their own creative processes. New skills and techniques are introduced and students are encouraged to begin to develop a portfolio for review, display, and assessment.

5332002 HONORS ART II
Grades 10-12
1 Credit
Prerequisite: Art I, instructor's recommendation; identified or eligible for identification as gifted in visual arts or portfolio review by high school staff

Students are provided with the opportunity to pursue advanced visual arts topics and nurture strengths in visual communication to prepare for AP or IB art courses. Honors Art II is designed to stimulate higher level and complex thinking skills, which are used to solve visual problems. The individual portfolio is used to determine the students' strengths and needs and to assist in the development of individualized learning opportunities.

Schools offering course: NSHS, SHS

533300 ART III
Grades 11-12
1 Credit
Prerequisite: Art II

In this course, students continue their refinement of skills through the use of different types of media, placing a high emphasis on composition through organization of the elements of art and use of the principles of design. Students are encouraged to explore their personal styles of art making while producing a diverse body of work. Students will document their growth through the continued development of a portfolio (traditional or digital).

533400 ART IV
Grades 11-12
1 Credit
Prerequisite: Art III

Art IV is a course designed to increase and develop skills in selected subject areas for the visually mature and advanced art student. Students develop personal styles in approach and media and are encouraged to experiment creatively with materials and techniques. Those students applying for advanced studies maintain and present a progressive portfolio.

Additional Courses

533500 SCULPTURE AND CERAMICS
Grades 10-12
1 Credit
Prerequisite: Art I

The course is designed for students interested in developing more sophisticated skills in working with three-dimensional media. Students will explore a variety of 3-D materials to solve sculpture problems through construction methods of fabrication, assemblage, carving, casting, and modeling. Students will also learn the methods of working with clay such as coiling, slab building, and throwing on the wheel. Through these methods, students are encouraged to explore their personal styles of art making while producing a diverse body of work.

533000 ART HISTORY (NON-STUDIO ELECTIVE)
Grades 10-12
1 Credit

This course is designed for students interested in learning to understand, evaluate, and appreciate art and its history in a non-studio setting. A broad range of artistic styles, media, and ideas from the past and present are used to examine the relationship and meaningful contribution of art to society. Students view significant artworks from around the world through readings, research, slides, videos, and museum visits, while also participating in course discussions, visual presentations, research, and problem solving. Writing skills are important in the description, analysis, and comparison of these works. This course complements courses in the humanities, providing multicultural and interdisciplinary connections.

533610 PHOTOGRAPHY AND GRAPHIC DESIGN I
Grades 9-12
1 Credit

This course allows students to think creatively and solve visual problems while using technology to create expressive artworks. Students explore and practice standard black and white photographic processes by using cameras, films, lighting effects, and applying basic darkroom techniques. They are introduced to digital photographic processes and develop proficiency, using various technologies for art making. Students learn skills in Adobe Creative Suite, along with the history of photography. A portfolio that showcases meaningful designs and photographs will be developed.

Note: Students are required to have access to a digital camera of 8mp or more, a film camera, and purchase necessary film/photographic paper.
Schools offering course: BPHS, SHS, HHS

533620 PHOTOGRAPHY AND GRAPHIC DESIGN II
Grades 10-12
1 Credit
Prerequisite: Photography and Graphic Design I

This course expands knowledge on the study of black and white photography, alternative processes, and the digital process. Students apply an in-depth understanding of equipment and artistic practices to solve complex visual problems. Working with others to design, package, and promote a publication is an important element in this course. Students also learn to critique and evaluate portfolios in digital and traditional media.

Note: Students are required to have access to a digital camera of 8mp or more, a film camera, and purchase necessary film/ photographic paper.
Schools offering course: BPHS, SHS, HHS

533630 PHOTOGRAPHY AND GRAPHIC DESIGN III

Grades 11-12

1 Credit

Prerequisite: Photography and Graphic Design II

This course engages students in the advanced study of photographic and technology-based design processes while developing the approach and discipline of a working artist. Students expand their capability in the application of technology to craft expressive original art and generate visual solutions to objective-based problems. A final required portfolio, which shows evidence of technical proficiency, quality, and experience, demonstrates students' commitment to the communication of ideas through digital and photographic media. Students are asked to apply professional exhibition techniques to display personal work.

Note: Students are required to have access to a digital camera of 8mp or more, a film camera, and purchase necessary film/ photographic paper.

Schools offering course: SHS, HHS

533020 ARTS, CULTURE, AND SOCIETY

Grade 9

1 Credit

This interdisciplinary course introduces students to the history of the arts and their powerful role in shaping cultures and societies across time. Through the study of visual art, music, architecture, literature, and history, students will explore how creative expression both reflects and influences human experience, identity, and community. Emphasis is placed on examining the connections between artistic movements and social change, and the ways in which the arts have driven innovation, communication, and cultural exchange. Students will engage in discussion, analysis, and project-based learning to develop critical thinking and creative perspectives. As the anchor course for the Specialty Center, The Arts, Culture, and Society provides students with a strong foundation for advanced study in digital content creation, multimedia, music production and audio engineering, live event and project management, and visual arts.

Schools offering course: HHS

Music

Note: Ensemble courses (band, chorus, and orchestra) are performance-based courses that involve participation in concerts and other performances and rehearsals outside of class time. There may be a requisite instrumental rental fee and uniform fee for students in these programs.

Band

531100 CONCERT BAND

Grades 9-12

1 Credit

Recommended Prerequisite: Previous band experience at the middle school level required

Emphasis in this course is on mastering the skills necessary to meet the intermediate level for the performance of Grade III-IV band literature. Students participate in Virginia Band and Orchestra Directors Association (VBODA) sponsored events and All-County Band auditions. Concerts of traditional and contemporary band works are prepared and performed. Small ensemble and solo work, and music theory and history, are components of this course. Students are expected to practice an average of 30 minutes per day.

531300 SYMPHONIC BAND

Grades 9-12

1 Credit

Recommended Prerequisite: One or more years of previous band experience; by audition

Emphasis in this course is on mastering the skills necessary to meet the advanced level for the performance of Grade IV-V band literature. Students participate in Virginia Band and Orchestra Directors Association (VBODA) sponsored events and All-County Band auditions. Concerts of traditional and contemporary band works are prepared and performed. Small ensemble and solo work, and music theory and history, are components of this course. Students

are expected to practice an average of 30 minutes per day.

531800 WIND ENSEMBLE

Grades 9-12

1 Credit

By audition only

This course functions at the artist level in accordance with the Virginia Standards of Learning. Emphasis in this course is on traditional and contemporary works for concert band and wind ensemble at the Grade V-VI level. Students continue their participation in Virginia Band and Orchestra Directors Association (VBODA) sponsored events and All-County Band auditions. Small ensemble and solo work, and scales, etudes, music theory, ear training, sight- singing/reading, and music history, are components of this course. The course is based on the size of a traditional Wind Ensemble and is limited to the instrumentation needs of the group. This course is for students who are serious about learning instrumental music. Private lessons, while not required, are strongly encouraged for members of this ensemble. Students are expected to practice 30 minutes per day.

531900 PERCUSSION ENSEMBLE

Grades 9-12

1 Credit

Recommended Prerequisite: Previous band experience is required

This course is designed to meet the unique needs of the percussion student at the high school level. Students master the techniques required for playing the full spectrum of percussion equipment including drums, mallet instruments, timpani, and the various hand-held “trap” instruments. Special emphasis is placed on the Percussive Arts Society list of 40 rudiments, keyboard proficiency, note and rhythm reading skills, music theory, music history, ear training, and sight-reading. Students are expected to practice a minimum of 30 minutes per day.

531600 JAZZ ENSEMBLE

Grades 10-12

1 Credit

Recommended Prerequisite: One or more years of high school band experience; by audition

An advanced-level course, emphasis is on performance techniques unique to jazz music and the history of jazz through the study of traditional and contemporary works. Students participate in Virginia Band and Orchestra Directors Association (VBODA) sponsored events. Some emphasis is given to music theory as it relates to improvisation. Students are involved in solo work and small ensembles. This course is based on the traditional size of a jazz band, or “Big Band”, and is limited in size to the instrumentation needs of the group.

531610 JAZZ WORKSHOP

Grades 9-12

1 Credit

Recommended Prerequisite: One or more years of high school band experience; by audition

Jazz workshop is a theory-based lecture/lab that explores compositional techniques and their application in improvisation and music literature based in an improvisatory tradition. Compositional style is approached through aural theory, written theory, music history, and technical development of their individual instrument. Students study song forms, motivic development, phrase structure, chord construction, and voice leading. These compositional elements will be applied to important historical and stylistic musical vehicles that may include: Blues, Swing, Bebop, Modal, and Funk/ Fusion. This course requires students to perform scales, scale patterns, memorized phrases and melodies, and improvised melodies over given chord progressions and song forms. Students are responsible for attending one performance per semester outside of the normal school day.

Schools offering course: CFHS

Chorus

Choral directors may place students in specially-designed and appropriate sections of chorus.

532700 VOCAL ENSEMBLE**Grades 9-12****1 Credit**

This course is open to all interested students in grades 9-12 whose voices are within the tenor-bass range. It covers Levels 1 and 2 of the Stafford County Choral Music curriculum.

532600 TREBLE CHORUS**Grades 9-12****1 Credit**

This course is open to all interested students in grades 9-12 whose voices are within the treble range. It covers Levels 1 and 2 of the Stafford County Choral Music curriculum.

532300 CHORALE**Grades 9-12****1 Credit*****Auditions may be required***

This course is a choir open to students in grades 9-12. The course covers Levels 2 and 3 of the Stafford County Choral Music curriculum.

532500 MADRIGALS**Grades 10-12****1 Credit*****By audition only***

This course is an auditioned choir that is limited to a set number of singers per voice part. The course covers Levels 2, 3, and 4 of the Stafford County Choral Music curriculum.

532400 JAZZ CHOIR**Grades 9-12****1 Credit*****Auditions may be required***

This course is a performance choir that focuses on the performance of Jazz, show music, and contemporary literature. This choir may be limited to a set number of singers per voice part. The course includes Levels 2, 3, and 4 of the Stafford County Choral Music curriculum.

532100 CHAMBER CHOIR**Grades 10-12****1 Credit*****By audition only***

This course is an auditioned choir that is limited to a set number of singers per voice part. The course covers Levels 2, 3, and 4 of the Stafford County Choral Music curriculum.

Orchestra**531200 CONCERT ORCHESTRA****Grades 9-12****1 Credit*****Recommended Prerequisite: Previous orchestra experience at the middle school level required***

In this course, emphasis is on mastering the skills necessary for the performance of Grade III-IV string orchestra literature. Students participate in Virginia Band and Orchestra Directors Association (VBODA) sponsored events and All-County Orchestra auditions. Concerts of traditional and contemporary string orchestra works are prepared and performed. Small ensemble and solo work, music theory, and history are components of this course. Students are

BPHS=Brooke Point CFHS=Colonial Forge HHS=Hartwood MVHS=Mountain View NSHS=North Stafford SHS=Stafford
#-Weighted Course

expected to practice an average of 30 minutes per day.

531400 SYMPHONIC ORCHESTRA

Grades 9-12

1 Credit

Recommended Prerequisite: One or more years of previous orchestra experience; by audition

In this course, emphasis is on mastering the skills necessary for the performance of Grade IV-V string orchestra literature. Students participate in Virginia Band and Orchestra Directors Association (VBODA) sponsored events and All-County Orchestra auditions. Concerts of traditional and contemporary string orchestra works are prepared and performed. Small ensemble and solo work, and music theory and history, are components of this course. Students are expected to practice an average of 30 minutes per day.

531700 CHAMBER SINFONIA

Grades 10-12

1 Credit

By audition only

This is an advanced-level course functioning at the artist level in accordance with the Virginia Standards of Learning. Emphasis is on traditional and contemporary works for string orchestra at the Grade IV-VI level. Students continue their participation in Virginia Band and Orchestra Directors Association (VBODA) sponsored events and All-County auditions. Small ensemble and solo work, and scales, etudes, music theory, ear training, sight-singing/ reading, and music history, are components of this course. The course is based on the size of a traditional Chamber Orchestra and is limited to the group's instrumentation needs. This course is for students who are serious about learning instrumental music. Private lessons, while not required, are strongly encouraged for members of this ensemble. Students are expected to practice an average of 30 minutes per day.

General Courses for Music

530130 MUSIC THEORY

Grades 10-12

1 Credit

Prerequisite: Previous music training required. Students should have a fundamental understanding of music notation.

The course develops a student's ability to recognize, understand and describe basic elements of music literacy and composition. A knowledge of structural, technical, and historical elements of music is acquired through the study of music from varied periods and cultures. Aural, analytical, and composition skills and techniques will be presented through listening and written exercises. Student theorists will read, notate, compose, and analyze music while engaging in the creative process through performance, written projects, and exercises.

530210 GUITAR I

Grades 9-12

1 Credit

Note: Rehearsals and performances may be required of students outside of the school day.

This course introduces students to guitar basics. Guitar instruction emphasizes basic technique, music reading, progressions, and music theory. Music literature is selected from classical and contemporary repertoire. This course offers a comprehensive study of all musical styles. Guest artists and field trips to performances and/or seminars may also be part of the curriculum.

Schools offering course: BPHS, CFHS, MVHS, NSHS, SHS

530220 GUITAR II

Grades 10-12

1 Credit

Note: Rehearsals and performances may be required of students outside of the school day.

Prerequisite: Guitar I or teacher recommendation

Students continue to hone their guitar skills in this course. Guitar instruction emphasizes intermediate technique,

music reading, progressions, and music theory. Music literature is selected from jazz, rock, blues, classical, and contemporary repertoire. Students build a repertoire of solo literature and begin studying improvisation. Guest artists and field trips to performances and/or seminars may also be part of the curriculum.

Schools offering course: BPHS, CFHS, MVHS, NSHS, SHS

531500 GUITAR ENSEMBLE

Grades 11-12

1 Credit

Note: Rehearsals and performances may be required of students outside of the school day.

Prerequisite: Guitar II or teacher recommendation

This course is designed for guitarists who wish to continue their study of the guitar past the initial year. The course covers advanced skills associated with playing the guitar. An emphasis is placed on ensemble playing (both large and small ensembles). Students will continue to develop and refine their technique and music reading skills and will perform music of many styles and difficulty levels. Position playing and jazz improvisation will be introduced in this course as well. Students in this course will be required to participate in guitar performances outside of scheduled class time. Students may enroll in this course for consecutive years to continue their study of the instrument.

Schools offering course: BPHS, CFHS, MVHS, NSHS

530110 MUSIC TECHNOLOGY I

Grades 9-12

1 Credit

This course develops an understanding of music composition through the use of digital keyboards, MIDI technology, DAW software, and music notation software. Students also develop skills in their creative and technical expression. A portfolio of compositions, arrangements, and recordings representing a variety of styles and compositional situations are developed throughout the course.

Schools offering course: SHS

530120 MUSIC TECHNOLOGY II

Grades 10-12

1 Credit

Prerequisite: Music Technology I or teacher recommendation

Students develop a deeper understanding of music composition through the use of digital keyboards, MIDI technology, DAW software, and music notation software. Students continue to develop their creative and technical expression skills. A portfolio of compositions, arrangements, and recordings representing a variety of styles and compositional situations is developed throughout the course.

Schools offering course: SHS

Theatre Arts

534110 THEATRE ARTS I

Grades 9-12

1 Credit

In this survey course, students experience dramatic literature and participate in the creative processes of performance and production. Methods of storytelling, play writing, puppetry, and adaptation are used to emphasize skill development and provide theatrical opportunities that allow students to explore areas of personal interest. This is a performance-based course and students are expected to perform in front of an audience of their peers.

534120 THEATRE ARTS II

Grades 10-12

1 Credit

Note: Students in this course are highly encouraged to participate in school productions.

Prerequisite: Theatre Arts I

In this course, students study and respond to a variety of theatre experiences, including dramatic literature, theatrical styles, and historical period. They begin to develop and refine their communicative, collaborative, analytical,

interpretive, and problem- solving skills in this performance-based setting.

534130 THEATRE ARTS III

Grades 11-12

1 Credit

Note: Students in this course are highly encouraged to participate in school productions.

Prerequisite: Theatre Arts II

Students study theatre and drama as an educational force in this course. They will deepen their artistic abilities through the investigation of acting styles and the process of playwriting, which includes character development, research, dramatic structure, conflict, and resolution.

534140 THEATRE ARTS IV

Grades 11-12 or audition by teacher

1 Credit

Note: Students in this course are expected to participate in school productions.

Prerequisite: Theatre Arts III

This is exclusively a performing and directing course. Advanced skills in performing and directing skills will be refined through research, performance, and evaluation.

534210 TECHNICAL THEATRE I

Grades 9-12

1 Credit

Note: This is not a performance-based class. This is the backstage work of the theatre.

This course is an introduction to the technical aspects of the theatrical experience. Students explore the various physical needs of theatrical productions, including scenic Construction, lighting, sound, costuming, and make up. Smaller projects focus on stage management and production design.

534220 TECHNICAL THEATRE II

Grades 10-12

1 Credit

Note: Participation in school productions is expected.

Prerequisite: Technical Theatre I

This course utilizes what students have learned in Technical Theatre to build theatrical productions throughout the year. Students serve as the technical crews to assemble the various technical aspects for two major productions, including scenery, lighting, sound, costuming, and makeup. Individual projects focus on stage management and production design.

534230 TECHNICAL THEATRE III

Grades 10-12

1 Credit

Note: Participation in school productions is expected.

Prerequisite: Technical Theatre II

This course utilizes what students have learned in Technical Theatre I and II to serve as student designers and production managers for theatrical productions throughout the year. These students design and oversee the construction of the scenery, lighting, sound, costumes, and make up for two major productions. Individual projects focus on theatre management and technical direction.

Advanced Placement Courses for Art

Students will be prepared for and are encouraged to take the course's AP examination or portfolio submission for possible college credit.

AP STUDIO ART

5335304 Studio Art (Drawing Portfolio)

5335104 Studio Art (2-D Design Portfolio)

5335204 Studio Art (3-D Design Portfolio)

Grades 11-12

1 Credit#

Note: Students enrolled in this course must be willing to work independently and meet portfolio submission deadlines as established by the teacher.

Prerequisite: Art III

AP Art is designed for highly motivated art students who plan to major in art in college. Following a highly prescribed curriculum set by the College Board, students prepare one of three portfolios of artwork (drawing, 2-D design, or 3-D design).

5330104 AP ART HISTORY (NON-STUDIO ELECTIVE)

Grades 11-12

1 Credit#

Prerequisite: Art History or teacher recommendation

This course is designed for students interested in learning to understand, evaluate, and appreciate art and its history in a non-studio setting. A broad range of artistic styles, media, and ideas from the past and present are used to examine the relationship and meaningful contribution of art to society. Students learn to look at significant works of arts from around the world with intelligence and sensitivity. Through writing, readings, research, visual presentations, and museum visits, students examine the major forms of artistic expression of the past and of distant cultures, and those of our own time and environment.

Dual Enrollment Courses for Art

Courses meeting the Uniform Certificate of General Studies (UCGS) are indicated within course descriptions.

5330006 Art History (ART 101 and 102)

Grades 11-12

1 Credit#

Dual Enrollment Art History will develop students' basic knowledge and comprehension of historical art movements to critically evaluate the role of social, cultural, and global connections through art historical analysis. This course surveys the history and interpretation of architecture, painting and sculpture from the prehistoric era through the modern era. These courses fulfill UCGS requirements.

Advanced Placement Courses for Music

5301304 AP MUSIC THEORY

Grades 11-12

1 Credit#

Prerequisite: Music Theory or teacher recommendation

AP Music Theory develops a student's ability to recognize, understand, and describe the basic elements of music literacy and composition. This is approached by addressing fundamental aural, analytical, and compositional skills using both listening and written exercises. Building on this foundation, the course progresses to include more creative tasks, such as the harmonization of a melody by selecting appropriate chords, composing a musical bass line to provide two-voice counterpoint, or the realization of figured-bass notation. Students will be prepared and are encouraged to take the AP exam for possible college credit.

International Baccalaureate Courses for Visual and Performing Arts

Students will be prepared and are encouraged to take the year-end IB examination for possible college credit. Schools offering these courses: BPHS (through 2026-2027) and MVHS.

IB VISUAL ARTS (SL)**5331005 Grade 11****5332005 Grade 12****1 Credit per Course#*****Prerequisite: Art II for IB grade 11******Prerequisite: IB grade 11 for IB grade 12***

This two-year sequence is intended for highly motivated students committed to serious study of art. The aim is to provide opportunities to develop the aesthetic, imaginative, and creative faculties and train visual, perceptual, and critical awareness of art of various cultures. Students create a portfolio that demonstrates intensive concentration in studio work and research in preparation for the external assessment.

IB VISUAL ARTS (HL)**5333005 Grade 11****5334005 Grade 12****1 Credit per Course#*****Prerequisite: Art II for IB grade 11******Prerequisite: IB grade 11 for IB grade 12***

This two-year sequence is intended for highly motivated students committed to serious study of art. The aim of the course is to develop the aesthetic, imaginative, and creative faculties and train visual, perceptual, and critical awareness of art of various cultures. Students create a portfolio that demonstrates intensive concentration in studio work and research in preparation for the external assessment.

IB THEATRE ARTS (SL)**5343105 Grade 11****5343305 Grade 12****1 Credit per Course#*****Prerequisite: Theatre Arts II or Technical Theatre II for IB grade 11******Prerequisite: IB grade 11 for IB grade 12***

In this two-year sequence, students engage in the in-depth study of the nature, theories, and processes of theatre and theatrical production through time and across cultures. Practical and theoretical applications are components of this course. Students will collaborate with peers to create original theatre and staging, and will conduct significant research into and written analysis of the theory of theatre, including specific theorists and practical applications of theory. Students in this course are encouraged to participate in school productions.

IB THEATRE ARTS (HL)**5343205 Grade 11****5343405 Grade 12****1 Credit per Course#*****Prerequisite: Theatre Arts II or Technical Theatre II for IB grade 11******Prerequisite: IB grade 11 for IB grade 12***

In this two-year sequence, students engage in the in-depth study of the nature, theories, and processes of theatre and theatrical production through time and across cultures. Practical and theoretical applications are components of this course. Students will collaborate with peers to create original theatre and staging, and will conduct significant research into and written analysis of the theory of theatre, including specific theorists and practical applications of theory. HL students also explore and perform a solo theatre piece based on theory. Students in this course are encouraged to participate in school productions.

IB MUSIC (SL)**5303105 Grade 11-12****1 Credit#*****Prerequisite: Music Theory or Teacher Recommendation******Prerequisite: IB Music students must be concurrently enrolled in a performance class.***

This course includes the study of all music, including western and world music, and explores the material needed in an entry-level college music theory, appreciation, or history course. Students study examples of representative scores

from each period. Students write musical compositions using music notation software to clarify musical concepts taught. A solo or group performance recording is a requirement of this course.

Health, Physical Education, and Driver Education Courses

Physical Education is an academic discipline that involves the study of human movement and its impact on health and quality of life. Physical Education provides all students access to standards-based instruction that promotes health literacy and the motivation to engage in the health-enhancing physical activity needed to achieve and maintain a balanced healthy life.

Health Education increases health literacy, helps students understand how to achieve and maintain a healthy lifestyle, and fosters the motivation, skills, and self-efficacy necessary to make informed and healthy choices, avoid risky behaviors, and build healthy families, relationships, schools and communities.

Driver Education programs in Virginia schools focus on safe driving attitudes, skill development, and appropriate responses to hazards. The Commonwealth's standards for Driver Education require extended, supervised practice with a licensed parent or guardian to develop precision in the application of skills and processes to effectively manage risks.

Two (2) Health and Physical Education credits are required for both the Standard and Advanced Studies diplomas and may be obtained in the 9th and 10th grades.

General Courses

831000 HEALTH AND PHYSICAL EDUCATION 9

Grade 9

1 Credit

Physical Education instruction is required and emphasizes the participation in lifetime fitness activities and how it relates to personal wellness. Activities include badminton, volleyball, tennis, speed ball, dance, flag football, aerobics, soccer, recreational games, basketball, golf, running, and fitness stations. During the health portion of this course, students will study alcohol, tobacco, and drugs, diseases of the body, mental and emotional health, family life, safety and injury prevention and violence prevention.

832000/832000L HEALTH AND PHYSICAL EDUCATION 10

Grade 10

1 Credit

Note: The 2025-2026 fee for the optional "Behind the Wheel" program \$300.00. Age and licensing requirements must be met.

Physical Education instruction is required and emphasizes the participation in lifetime fitness activities and how it relates to personal wellness. Activities include archery, badminton, tennis, golf, bowling, speed ball, soccer, volleyball, dance aerobics, basketball, running, and other fitness activities. Classroom Driver Education is a part of the health requirement (course code 7405). Other health instruction includes family life, wellness, and healthy living components.

Elective Courses

833310 STRENGTH AND BODY I

Grades 11-12

1 Credit

This elective is offered for motivated students seeking daily participation in weight training and cardiovascular fitness. This course will provide the student the opportunity to design and implement individual fitness routines specific to his or her needs. Participants will gain a working knowledge of muscle groups and the exercises that complement them, along with an understanding of how the human body benefits from cardiovascular activity. The course will be held in the weight room while enjoying a variety of additional fitness-based activities such as plyometrics, speed, and agility drills.

833320 STRENGTH AND BODY II

Grades 11-12

1 Credit

Upon successful completion of Strength and Body I, this elective is offered for motivated students seeking daily participation in weight training and cardiovascular fitness. This course will provide the student the opportunity to design and implement individual fitness routines specific to his or her needs. Participants will gain a working knowledge of muscle groups and the exercises that complement them, along with an understanding of how the human body benefits from cardiovascular activity. The course will be held in the weight room while enjoying a variety of additional fitness-based activities such as plyometrics, speed, and agility drills.

833120 COMPETITIVE TEAM SPORTS

Grades 11-12

1 Credit

This course is intended for students interested in coaching team sports at various age levels; and/or students interested in becoming physical education teachers. This course offers a higher level of game play in a controlled setting. Students taking this course will develop strategies for game play, experience conditioning specific to various team sports, and participate in game play in several team sports throughout the year. Sports may include, but are not limited to: football, basketball, volleyball, lacrosse, baseball/softball, floor hockey, soccer, field hockey, team handball, Ultimate Frisbee and tchoukball. In addition, students will participate in the development of tournaments for game play and coaching peers for the tournaments. Students may also be required to participate in observation hours of any organized team sport activity in the community.

833110 COMPETITIVE INDIVIDUAL SPORTS

Grades 11-12

1 Credit

This course is intended for students interested in coaching individual sports at various age levels; and/or students interested in becoming physical education teachers. This course offers a higher level of game play in a controlled setting. Students taking this course will develop strategies for competition, experience conditioning specific to various individual sports, and participate in individual sports throughout the year. Sports may include track and field, distance running, golf, tennis, badminton, bowling, archery, and disk golf. Students will be involved in developing competition tournaments and coaching peers for these tournaments. Students may also be required to participate in observation hours of any organized individual sport in the community.

635710 SPORTS MEDICINE I

Grades 10-12

1 Credit

Recommended Prerequisite: Biology

This course is a basic introduction into the field of athletic training and sports medicine. Students study the anatomy and physiology of the skeletal and muscular systems, and kinesiology as they relate to the prevention, evaluation and care of athletic injuries. Students learn and practice emergency medical care for athletes, and taping techniques.

635720 SPORTS MEDICINE II

Grades 11-12

1 Credit

Note: This course requires participation in activities outside the scheduled class period, including evenings and weekends (minimum of 5 hours per week).

Prerequisite: Sports Medicine I, completion of an application, and an interview.

The focus of this course is the application of knowledge and understanding gained in Sports Medicine I. Students will have hands-on experiences in preventing, recognizing, evaluating, and providing emergency care for athletic injuries to sports team members under the supervision of a certified athletic trainer. A requirement of this course is that the student must serve as a student assistant for the athletic trainer for at least one sport season after school.

833210 SPORT AND FITNESS FOR LIFE I**Grades 11-12****1 Credit**

This elective course is offered for students seeking a more advanced experience in Physical Education. This course will provide exposure to non-competitive wellness activities, lifetime sports, and various competitive individual and team sports. Wellness activities such as Pilates, yoga, resistive fitness activities, and aerobic exercise. Wellness concepts focusing on nutrition education, body composition, personal fitness technologies, and stress management will be included. Students will be expected to participate in individual and group class work regarding class topics.

833220 SPORT AND FITNESS FOR LIFE II**Grade 12****1 Credit*****Prerequisite: Sport and Fitness for Life I***

This elective course is offered for students seeking a more advanced experience in Physical Education. This course will provide exposure to non-competitive wellness activities, lifetime sports, and various competitive individual and team sports. Wellness activities such as Pilates, yoga, resistive fitness activities, and aerobic exercise. Wellness concepts focusing on nutrition education, body composition, personal fitness technologies, and stress management will be included. Students will be expected to participate in individual and group class work regarding class topics.

English Learner Courses

English Learners (ELs) take courses designed to develop their skills in language acquisition in reading, writing, and academic vocabulary for all content areas. ESOL Courses may count towards:

- Sequential Elective Credit
- World Language Credit(s): Up to three ESOL course credits can count toward World Language credits.
- Science Credit: Environmental Science counts as one laboratory science credit toward either a standard or advanced diploma.

938000 ESOL NEWCOMER

Grades 9-12

1 Credit

Note: WIDA ELP Level 1.0 - 1.9 with less than 12 months of instruction in a U.S. school. The need for this course may depend on population density.

This is an elective course designed for newly arrived English Learners (ELs) who are at the beginning stages of English language proficiency. Listening, speaking, reading and writing skills are developed and aligned with WIDA English Language Development (ELD) Standards. Through differentiated instruction and scaffolded support, ELs will demonstrate progress in English language development and academic achievement with a focus on vocabulary development, literacy skills, and the writing process.

938410 ENGLISH LANGUAGE DEVELOPMENT CONCEPTS I

Grades 9-12

1 Credit

Note: WIDA ELP Level 1.0 - 1.9

Entering English learners develop their English language proficiency through intensive instruction that supports content and academic language development of the Virginia SOL Standards utilizing the four domains—reading, writing, listening, and speaking. This course is aligned with the WIDA English language development (ELD) standards and provides academic language instructions through the WIDA Language Standards of social and instructional, language arts, math, science, and social studies.

938420 ENGLISH LANGUAGE DEVELOPMENT CONCEPTS II

Grades 9-12

1 Credit

Note: WIDA ELP Level 2.0 - 2.9

Emerging English learners develop their English language proficiency through intensive instruction that supports content and academic language development of the Virginia SOL Standards utilizing the four domains—reading, writing, listening, and speaking. This course is aligned with the WIDA English language development (ELD) standards and provides academic language instructions through the Language Standards of language arts, math, science, and social studies.

938110 ESOL ENGLISH FOR ACADEMIC PURPOSES I

Grades 9-12

1 Credit

Note: WIDA ELP Level 2.0 - 2.9

This course is designed to enrich students' academic language and skills across core content areas: math, science, and social studies. Students will develop their academic language proficiency in the four domains: reading, writing, listening, and speaking.

Through targeted instruction, students will be engaged in building specialized vocabulary, mastering reading strategies for content-specific texts, and practicing academic discourse models for discussing complex topics. The course also focuses on content writing, teaching students how to effectively communicate ideas and findings in each subject area. The goal is to provide students with the linguistic tools necessary for continued success in their grade-level courses.

938120 ESOL ENGLISH FOR ACADEMIC PURPOSES II

Grades 9-12

1 Credit

Note: WIDA ELP Level 3.0 - 4.3

This course is designed with a focus on deepening students' ability to comprehend and produce complex academic language. The curriculum continues to integrate content from math, science, and social studies, but with a greater emphasis on critical thinking and analysis.

Students will engage in advanced reading strategies, analyze complex texts, and produce sophisticated academic writing, including research summaries and argumentative essays. The course will further refine academic discourse models, preparing students for the rigorous demands of upper-level high school courses and post-secondary education.

938310 ESOL ALGEBRA READINESS

Grades 9-12

1 Credit

Note: WIDA ELP Level 1.0 - 2.9. Students must be concurrently enrolled in Algebra I.

This course is designed to bridge essential number sense and computational proficiency to generalized algebraic reasoning necessary to successfully complete Algebra I. English language learner students will develop the language skills and vocabulary necessary to make connections between complex mathematical ideas in preparation for Algebra I.

938210 ESOL FOUNDATIONS OF LITERACY

Grades 9-12

1 Credit

Note: WIDA ELP Level 1.0 - 2.9 AND a SLIFE designation

This is an elective course designed to provide direct, explicit, and intensive reading and mathematics instruction to English Learners. This course will equip students for success in core classes, instruction will focus on the essential components of literacy. Literacy instruction will encompass phonemic awareness, phonics, reading fluency (including oral skills), vocabulary development, and reading comprehension strategies.

938320 ESOL FOUNDATIONS OF MATHEMATICS

Grades 9-12

1 Credit

Note: WIDA ELP Level 1.0 - 2.9 AND a SLIFE designation

This is an elective course designed to provide direct, explicit, and intensive reading and mathematics instruction to English Learners. This course will equip students for success in core classes, instruction will focus on the essential components of mathematics. Math instruction will include essential components of numeracy, computation, and geometry which include counting (including subitizing), comparisons of quantities and figures, decomposing and recomposing, patterning, estimation, geometry, and generalized algebraic reasoning skills.

331310 ESOL ENVIRONMENTAL SCIENCE

Grades 9-12

1 Science Credit

Note: WIDA ELP Level 1.0 - 2.9

This course is designed for English Learners to introduce the student to vocabulary, concepts, phenomena, systems and processes to better understand the natural world. The course will build on the middle school science content and investigations to prepare students for successive entry into Biology to earn verified credit. Instruction will build science literacy through inquiry, student data collection and analysis using appropriate tools, laboratory experiences, and field work including a meaningful watershed experience.

938500 ESOL PEER TUTORING

Grades 9-12

1 Credit

Note: Former ELs who have exited the ESOL Program.

This is an elective course in which students will serve as language tutors to ESOL students. ESOL tutors assist in the preparation and delivery of small group instruction, provide ESOL accommodations as appropriate, create manipulatives and other instructional activities aligned to students' proficiency level.

Additional Credit Opportunities

030400 FRESHMAN SUCCESS 101

Grade 9

1 Elective Credit

Placement: Selection based on recommendation.

Freshman Success 101 offers students the opportunity to explore career options through identifying their personal interests and aligning them with academic curriculum, course offerings, and CTE credentials. Students will build essential workplace and life readiness skills such as communication, collaboration, problem solving, time management, and adaptability. The course also emphasizes character development, study strategies, and organizational skills. The course also includes a service learning component. This course may require students to participate in learning experiences outside the school day including evenings and weekends. Critical elements of this course are also embedded in first-year center required coursework.

030500 Peer Tutoring

Grades 10-12

1 Elective Credit

Peer Tutoring is a higher-level general elective course. The course entails an in-depth study of writing and learning across all disciplines, literacy acquisition, and "ways of knowing." Students investigate how individuals build literacy skills, understand concepts, and acquire knowledge across the disciplines. Students will become experts on approaching data, analyzing problems, and processing information as it relates to mathematics and science. This content is applied and assessed as students develop their own writing, explore and reflect on literacy, language, content and skills acquisition, and attempt to help their peers access knowledge.

6385004 AP COMPUTER SCIENCE PRINCIPLES

Grades 9-12

1 Credit#

This course is designed to focus on computational thinking practices, which enables students to engage with the course content by developing computational artifacts and analyzing data, information, or knowledge represented for computational use. The course will emphasize the following elements: connecting computing (to include creative computing), creating computational artifacts, abstracting, communicating, and collaborating. The course was created to be equivalent to a first-semester introductory college computing course. Students will be prepared and encouraged to take the AP Computer Science Principles exam.

Advanced Placement Capstone Courses

1385104 AP CAPSTONE – AP SEMINAR

Grades 10-12

1 Credit#

AP Seminar is the first of two courses in the AP Capstone program, and it is designed to further develop inquiry and research skills as applied to topics and issues of global and/or cultural relevance presented by an AP Capstone trained teacher. With this topic or issue as the centerpiece of class discourse, students learn to employ critical thinking skills such as analysis, synthesis, differentiation, and interpretation; students engage in collaborative teamwork and service-learning experiences. Students participating in this program have required tasks that include a team project, an individual presentation, and a written exam. This course may be included in the requirements for a number of academic programs in Stafford.

1385204 AP CAPSTONE – AP RESEARCH

Grades 11-12

1 Credit#

AP Research is the second of two courses in the AP Capstone program, and it allows students to put the skills acquired in the AP Seminar course to practice in a Capstone Research Project. The course offers an opportunity for students to explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan and conduct a yearlong mentored, research-based investigation to address a research question. This

independent study, executed under the mentorship of an AP Capstone trained teacher, culminates in a scholarly academic thesis in which the student defends and articulates his/her position on his/her chosen subject. This course may be included in the requirements for a number of academic programs.

Independent Study and Internship Programs

High School students can earn additional high school or college credits through a variety of independent study, distance learning, off-site courses, and work-study programs, after an application and review process. Generally, no independent study or alternative credit class can be arranged for classes already in the master course list. These programs work best for students who work well independently or who have a particular vocational interest or ability. For specific information, students should consult school counselors.

630300 ALL CENTURY INDEPENDENT LEARNERS

Grades 9-12

1 Credit

Students may propose a year-long study of a topic of interest, working primarily under the supervision of a licensed teacher; additional teachers or community mentors may be identified and utilized as resources. To earn credit, students must have their proposal approved, document hours, and must complete and present a substantive product. Assessment is on a pass/fail basis.

030100 GIFTED AND SECONDARY PROGRAMS (GSP) INDEPENDENT STUDY

Grades 11-12

1 Credit

Students may propose a year-long study of a topic of interest, working under the supervision of the Gifted Resource Teacher and other teacher or community mentors. To earn credit, students must document hours and must complete and present a substantive product. Assessment is on a pass/fail basis.

138150 CGS ADVANCED RESEARCH AND WRITING

Grade 12

1 Credit

The CGS Advanced Research and Writing course allows students enrolled in the CGS program to progress from novice to expert through researching topics of their personal interest and passion. Students progress through the levels of development beginning with a process where they learn the basics of research, research question development, and presentation. As students' skills improve and growth occurs, the emphasis moves from process to product and presentation. Products are not limited to research papers, but all must include a written research component. At the conclusion of the course, students become independent researchers and focus on developing college-level research products. During this final step, students are supported by an expert-advisor in the field as they work on their projects, and they present their findings to their expert-advisor, the CGS staff, and the community. Credit for the course is granted in the senior year with successful completion of all components of the course.

630100 LEARN AND SERVE I

630200 LEARN AND SERVE II

Grades 10-12

1 Credit

This course equips high school students with entrepreneurial vision, tenacity, confidence, and leadership skills needed to tackle social challenges at home and abroad. These courses have discussions with public officials and community leaders. Students are introduced to the concept of service-learning and design individual and group projects as a part of the class curriculum.

630000 LEADERSHIP

Grades 9-12

1 Credit

Students will develop effective leadership skills, understand organizational planning, use effective workplace communication, examine resource management, resolve conflict, and plan for the future. Students will examine and use project management tools to plan and execute a project.

Career and Technical Education and Industry Credentials

Stafford Schools offers a wide variety of rigorous and engaging Career and Technical Education (CTE) programs designed to improve academic and technical skills attainment to support students interested in pursuing employment, enlistment, or enrollment after high school. CTE offers leadership opportunities through Career and Technical Student Organizations and delivers instruction through realistic, hands-on applications through state approved forms of Work-Based Learning (WBL). All students are encouraged to seek CTE courses that provide a foundation for their career plans and interests.

CTE instruction provides relevance through problem-based learning that prepare students for high-skill, high-wage, and in-demand careers including: employment in the workforce, enlistment in the military, or enrollment in a post-secondary institution/program.

CTE courses are offered in the following program areas:

- Agriculture
- Business and Information Technology
- Career Connections
- Family and Consumer Science
- Health and Medical Science
- Marketing
- Junior Reserve Officer Training Corps (JROTC)
- Technology Education
- Trade and Industrial Education

Workplace Readiness Skills

Virginia's 22 Workplace Readiness Skills (WRS) for the Commonwealth reinforce learning in the classroom and essential durable skills. Attendance, self-discipline, and safety awareness are vital to the successful enrollment and completion of CTE courses. The three core WRS areas include:

- Personal qualities and abilities: creativity, work ethic, and problem solving;
- Interpersonal skills: conflict resolution, teamwork, and respect for diversity; and
- Professional competencies: information security, professionalism, and career and life management.

CTE Completer

Students pursuing either an Advanced Studies Diploma or a Standard Diploma enhance their career plans by enrolling in CTE courses. A CTE Completer is a student who has met the requirements for a CTE concentration (sequence) and all requirements for high school graduation, or an approved alternative education program. Students who complete a CTE sequence may be eligible for a Career and Technical Education diploma seal.

CTE Industry Credentials

All students are offered opportunities to earn industry credentials. Credentials provide students with evidence of advanced educational preparation through industry-validated programs, add value to a transcript for postsecondary education, and demonstrate to a potential employer the student's workforce preparedness. Students should contact their CTE teacher or counselors for more details. Credential offerings are based on state alignment to the course, teacher licensure/certification, and funding

A credential is defined as:

- State-Issued Professional License required for entry into a specific occupation as determined by a Virginia state licensing agency such as Cosmetology, Certified Nurse Aide (CNA), etc.
- Industry Certification from a recognized industry, trade, or professional association validating essential skills of a particular occupation. For example: ServSafe Food Protection Manager Certification offered by the National Restaurant Association, and/or stackable industry certifications leading to a credential such as:

Automotive Service Excellence (ASE) Entry-Level Certification Tests, Microsoft Office Specialist (MOS) Examinations; etc.

- Occupational Competency Assessment, a national standardized assessment of skills/knowledge in a specific career and/or technical area such as: Electrical Level One Assessment (National Center for Construction Education and Research (NCCER), etc.
- Workplace Readiness Skills CTE Consortium of States (CTECS).

CTE Industry Credential Offerings

Stafford Schools offer students opportunities to earn an industry credential. Credential offerings are based on state alignment to the course, teacher licensure/certification, and funding. Students should contact their CTE teacher or counselors for details.

*Identified High-Demand Industry Credential as approved by VDOE.

Course Title	Course	Industry Credential Offered
Accounting I	633110	CTECS Workplace Readiness
Accounting II	633120	*IRS VITA Tax Preparer Certification or *Intuit QuickBooks Certified User (QBCU)
Advanced Manufacturing Systems II	637320	*Additive Manufacturing Essentials Examination
Aerospace Engineering (PLTW)	638100	Project Lead the Way (PLTW) End of Course Test
Animation and Digital Content Technology	637120	CTECS Workplace Readiness
Architectural Drawing and Design	637110	CTECS Workplace Readiness
Collision Repair Technology I	639110	Industry credential administered in a later course
Collision Repair Technology II	639120	Automotive Service Excellence (ASE)
Collision Repair Technology III	639130	Automotive Service Excellence (ASE)
Automotive Technology I	639140	Automotive Service Excellence (ASE)
Automotive Technology II	639150	Automotive Service Excellence (ASE)
Automotive Technology III	639160	Automotive Service Excellence (ASE)
Biomedical Innovations (PLTW)	638430	Project Lead the Way (PLTW) End of Course Test
Business Law	633210	CTECS Workplace Readiness
Business Management	633220	*Microsoft Certified Fundamentals Student Choice Test or CTECS Workplace Readiness
DE Business Management	6332206	CTECS Workplace Readiness
Cabinetmaking I	639240	Industry credential administered in a later course

Course Title	Course	Industry Credential Offered
Cabinetmaking II	639250	CTECS Workplace Readiness
Carpentry I	639210	NCCER Core: Introduction to Basic Construction Skills *NCCER Carpenter Level One
Carpentry II	639220	*NCCER Carpenter Level Two
Carpentry III	639230	WBL Experience
Child Development and Parenting	636000	CTECS Workplace Readiness
Civil Engineering and Architecture (PLTW)	638200	Project Lead the Way (PLTW) End of Course Test
Communication Systems	637000	CTECS Workplace Readiness
Computer Integrated Manufacturing (PLTW)	638210	Project Lead the Way (PLTW) End of Course Test
Computer Information Systems I	633320	Microsoft Office Specialist (MOS) Student Choice Test
Computer Information Systems II	633330	Microsoft Office Specialist (MOS) Student Choice Test
Cosmetology I	639810	CTECS Workplace Readiness
Cosmetology II	639820	*Virginia Cosmetology State License Exam
Criminal Justice I	635110	Industry credential administered in a later course
Criminal Justice II	635120	CTECS Workplace Readiness
Culinary Arts I	636110	*ServSafe Food Protection Manager Certification
Culinary Arts II	636120	*ServSafe Food Protection Manager Certification
Culinary Arts Specialization	636130	END of Course American Culinary Federation (ACF)
Cybersecurity I	633410	Security Pro Certification: Test Out Corporation
Cybersecurity II	633420	*CompTIA Network+ Certification
Cybersecurity III	633430	*CompTIA Security+ Certification
DE VA Teachers for Tomorrow I	6304106	Industry credential administered in a later course
DE VA Teachers for Tomorrow II	6304206	*Praxis Core Academic Skills for Educators Tests
Database Design and Management	6335008	CTECS Workplace Readiness
Design, Multimedia, and Web Technologies I	633510	CTECS Workplace Readiness

Course Title	Course	Industry Credential Offered
Design, Multimedia, and Web Technologies II	633520	*Adobe Certified Professional Student Choice Test
Digital Applications	633530	CTECS Workplace Readiness
Digital Electronics (PLTW)	638110	Project Lead the Way (PLTW) End of Course Test
Digital and Social Media Marketing	634100	CTECS Workplace Readiness
Drafting: Fundamentals	639610	Industry credential administered in a later course
Drafting: Mechanical	639620	American Design Drafting Association (ADDA), Mechanical
Drafting: Architectural	639630	American Design Drafting Association (ADDA), Architectural
Drafting: Advanced	639640	American Design Drafting Association (ADDA), Architectural or Mechanical
Early Childhood Education and Services I	636210	CTECS Workplace Readiness
Early Childhood Education and Services II	636220	*Praxis Core Academic Skills for Educators Tests
Economics and Personal Finance	633000	WISE Financial Literacy
Electricity I	639310	NCCER Core: Introduction to Basic Construction Skills *NCCER Electrical Level One
Electricity II	639320	*NCCER Electrical Level Two
Electricity III	639330	WBL Experience
Emergency Medical Technician I	635210	Industry credential administered in a later course
Emergency Medical Technician II	635220/ 635230	*Emergency Medical Technician (EMT) State License
Emergency Medical Telecommunication	635240	*Emergency Telecommunicator Certification (ETC)
Employment for Education I	634500	CTECS Workplace Readiness
Engineering Analysis and Applications	637210	*Pre-Manufacturing Technician 1 (Pre-MT1)
Engineering Capstone (PLTW)	638320	Project Lead the Way (PLTW) End of Course Test
Engineering Drawing and Design	637230	CTECS Workplace Readiness
Engineering Explorations	637200	CTECS Workplace Readiness
Engineering Practicum	8453	Industry credential administered in a later course
Engineering Studies	637250	CTECS Workplace Readiness

BPHS=Brooke Point CFHS=Colonial Forge HHS=Hartwood MVHS=Mountain View NSHS=North Stafford SHS=Stafford
#-Weighted Course

Course Title	Course	Industry Credential Offered
Family Relations	636010	CTECS Workplace Readiness
Fashion Marketing I	634210	CTECS Workplace Readiness
Fashion Marketing II	634220	*Business of Retail Operations and Profit Exam
Firefighting I and II	635310 635320	*Firefighter I and II Certification Examination
Greenhouse Plant Production and Management	632720	CTECS Workplace Readiness
Health Informatics	635100	CTECS Workplace Readiness
Heating, Ventilation, Air Conditioning and Refrigeration I	639340	NCCER Core: Introduction to Basic Construction Skills *NCCER HVACR Level One
Heating, Ventilation, Air Conditioning and Refrigeration II	639350	NCCER Core: Introduction to Basic Construction Skills *NCCER HVACR Level Two
Horticulture Sciences	8034	Industry credential administered in a later course
Human Body Systems (PLTW)	638410	Project Lead the Way (PLTW) End of Course Test
IB Business and Management and Supervision (SL)	6332205	CTECS Workplace Readiness
Imaging Technology	637300	CTECS Workplace Readiness
Information Technology Fundamentals	633310	Industry credential administered in a later course
Introduction to Construction Trades	639000	NCCER Core: Introduction to Basic Construction Skills
Introduction to Engineering Design (PLTW)	638000	Project Lead the Way (PLTW) End of Course Test
Introduction to Fashion Careers	636410	CTECS Workplace Readiness
Introduction to Health and Medical Sciences	635000	Industry credential administered in a later course
Introduction to Interior Design	636420	CTECS Workplace Readiness
Java Programming	6336108	*Certiport IT Specialist Certification Exam
Landscaping I	632730	Industry credential administered in a later course
Landscaping II	632740	*Certified Grounds Technician Examination
Life Planning	636020	CTECS Workplace Readiness
Manufacturing Systems	637310	Industry credential administered in a later course

Course Title	Course	Industry Credential Offered
Marketing	634300	CTECS Workplace Readiness
Strategic Marketing	634310	*Business of Retail Operations and Profit Exam
Masonry I	639410	NCCER Core: Introduction to Basic Construction Skills *NCCER Masonry Level One
Masonry III	639430	WBL Experience
Master Barbering I	639830	CTECS Workplace Readiness
Master Barbering II	639840	*Virginia Master Barbers State License Exam
Medical Assistant I	635410	Industry credential administered in a later course
Medical Assistant II	635420	*Certified Clinical Medical Assistant (CCMA)
Medical Interventions (PLTW)	638420	Project Lead the Way (PLTW) End of Course Test
Mental Health Assisting Careers	635810	Industry credential administered in a later course
Military Science I (JROTC)	631110F	Armed Services Vocational Aptitude Battery (ASVAB)
Military Science II (JROTC)	631120F	Armed Services Vocational Aptitude Battery (ASVAB)
Military Science III (JROTC)	631130F	Armed Services Vocational Aptitude Battery (ASVAB)
Military Science IV (JROTC)	631140F	Armed Services Vocational Aptitude Battery (ASVAB)
Nurse Aide	635510	Certified Nurse Aide (C.N.A.) Exam
Nutrition and Wellness	636030	CTECS Workplace Readiness
Office Specialist I	633010	CTECS Workplace Readiness
Office Specialist II	633020	CTECS Workplace Readiness
Office Specialist III	633030	CTECS Workplace Readiness
Principles of Biomedical Science (PLTW)	638400	Project Lead the Way (PLTW) End of Course Test
Principles of Business and Marketing	634000	CTECS Workplace Readiness
Principles of Engineering (PLTW)	638310	Project Lead the Way (PLTW) End of Course Test
Production Systems	637330	CTECS Workplace Readiness
Programming I	633611	CTECS Workplace Readiness
Programming I DE	6336116	CTECS Workplace Readiness
Programming II	633612	CTECS Workplace Readiness

Course Title	Course	Industry Credential Offered
DE Programming II	6336126	CTECS Workplace Readiness
STAT Programming	6336118	CTECS Workplace Readiness
Small Engine Technology I	639180	Industry credential administered in a later course
Small Engine Technology II	639190	*EETC Two Stroke Engine Certification or *EETC Four Stroke Engine Certification
Sports and Entertainment Marketing	634400	CTECS Workplace Readiness
Sports and Entertainment Management	634410	*Business of Retail Operations and Profit Exam
Technical Drawing and Design	637100	Industry credential administered in a later course
Television and Media Production I	639710	Industry credential administered in a later course
Television and Media Production II	639720	*Adobe Certified Professional Student Choice Test

*Identified High-Demand Industry Credential as approved by VDOE.

Career and Technical Education Courses

Note: Number of credits indicates the number of instructional blocks in which instruction is delivered.

6304106 DE VIRGINIA TEACHERS FOR TOMORROW I

Grade 11

1 Credit

Please refer to Teachers for Tomorrow Pathway

Teachers for Tomorrow (TfT) is an approved Virginia Department of Education (VDOE) program offered to high school juniors and seniors interested in pursuing a career in education. The program is designed to attract high school students to the field of education through exposure to a world-class curriculum and hands-on experience that focuses on teaching. This course sequence provides an overview of human development from birth to adolescence to explore K-12 education. Students build a foundation for the structure and governance of teaching, and how to apply professional teaching techniques in the classroom.

Schools offering course: All

6304206 DE VIRGINIA TEACHERS FOR TOMORROW II

Grade 12

1 Credit

Prerequisite: DE Virginia Teachers for Tomorrow I

Students will continue to explore careers in Education and Training. The primary focus of the class is to act as the teacher applying teaching methods and strategies previously learned. This course allows students to prepare for careers in education as they research post-secondary options, learn about the teacher certification process, and participate in a practicum experience. **NOTE: Stafford Schools will offer a letter of intent to hire students who successfully complete this program, complete a College/University Education program, and are eligible to earn a teacher license.**

Schools offering course: All

639001 CAREER STRATEGIES

Grades 9-12

1 Credit

NOTE: Eligibility requires enrollment in one of the following courses: Culinary Specialization, Greenhouse Plant Production and Management, Nurse Aide, Carpentry I, Masonry I, Cosmetology II, Firefighting II, or Master Barbering II.

Career Strategies consists of an in-depth study of career clusters and pathways through a variety of investigative activities. Students analyze career assessment results, compare various educational options, and develop or revise a plan related to their academic and career-related goals.

Junior Reserve Officer Training Corps (JROTC)

Stafford Schools offers Junior Reserve Officer Training Corps programs for four branches of the United States Military. Students interested in participating in JROTC can only enroll in the branch offered at their high school.

Air Force JROTC (School Offering: North Stafford High School)

Aerospace Science (AS) is the primary component of the AFJROTC program and includes Basic Aviation History and Advanced, Advanced Science of Flight, Exploring Space, Global Awareness, and/or Survival. AS acquaints students with the historical, scientific, and technical aspects of aerospace. The basic history course is taught every year, and the advanced courses are rotated annually.

Leadership Education (LE) is the AFJROTC curriculum component aimed at developing leadership skills; LE acquaints students with the practical application of life skills to include discipline, responsibility, leadership, followership, citizenship, customs and courtesies, cadet corps activities, study habits, time management, communication skills, and leadership and management studies. Basic military drill is incorporated for each level course.

The Wellness component is keyed to the abilities of the individual students with the goal of meeting or exceeding the Presidential Physical Fitness Standards. The objectives of AFJROTC are to educate and train high school cadets in citizenship; promote community service; instill responsibility, character and self-discipline; and provide instruction in air and space fundamentals.

631110F AIR FORCE MILITARY SCIENCE I

Grades 9-12

1 Credit

This is the basic Aerospace Science (AS) course for all new cadets. It is an aviation history course focusing on the development of flight throughout the centuries. It starts with ancient civilizations, then progresses through time to modern day. The emphasis is on civilian and military contributions to aviation; the development, modernization, and transformation of the Air Force; and a brief astronomical and space exploration history. It is interspersed with concise overviews of the principles of flight to include basic aeronautics, aircraft motion and control, flight power, and rockets. Throughout the course, there are readings, videos, hands-on activities, and in-text and student workbook exercises to guide in the reinforcement of the materials. The leadership portion includes heritage, organization, and traditions of the Air Force; individual self-control, citizenship in the United States, and wellness, health and fitness. AS I cadets are welcome to serve as Group Staff trainees.

631120F AIR FORCE MILITARY SCIENCE II

Grades 10-12

1 Credit

Prerequisite: Air Force Military Science I

This advanced course is designated to acquaint the student with the aerospace environment, the human requirements of flight, principles of aircraft flight, and principles of navigation. The course begins with a discussion of the atmosphere and weather. After developing an understanding of the environment, how that environment affects flight is introduced. Discussions include the forces of lift, drag, thrust, and weight. Students also learn basic navigation including map reading, course plotting, and the effects of wind. The portion on the Human Requirements of Flight contains information on human physiology. The leadership portion of the course concentrates on Life Skills and Career Opportunities. Topics include choosing one's path, job searching, financial planning, and career opportunities. AS III cadets serve as trainers in class and are encouraged to serve on Group Staff.

631130F AIR FORCE MILITARY SCIENCE III

Grades 10-12

1 Credit

Prerequisite: Air Force Military Science II

This science course includes up-to-date information in space science and space exploration. The course begins with the interest in astronomy and early ideas of the heavens, through the Renaissance, and on to modern astronomy. It provides an in-depth study of the Earth, Sun, stars, Moon, and solar system, including the terrestrial and the outer planets. It discusses issues critical to travel in the upper atmosphere such as orbits and trajectories, unmanned satellites, and space probes. It investigates the importance of entering space and discusses manned and unmanned space flights, focusing on concepts surrounding spaceflight, space vehicles, launch systems, and space missions. The course covers human aspects of spaceflight, focusing on the human experience in space. It also examines advances in space technology, including robotics in space, the Mars Rover, and commercial uses of space.

631140F AIR FORCE MILITARY SCIENCE IV

Grades 10-12

1 Credit

Prerequisite: Air Force Military Science III

This full-year course requires students to demonstrate leadership skills as a role model, mentor, and coach. Students help instructors manage the Corps of Cadets. This course affords students the opportunity to put leadership theories into practice by using their communication, decision-making, managerial, and organizational skills. The course also includes career exploration and reviews possible life experiences in the Air Force.

Army JROTC (School Offering: Colonial Forge High School)

The Army Junior Reserve Officers' Training Corps (JROTC) Program of Instruction focuses on the development of better citizens by building skills in leadership, citizenship, life success, geography, physical fitness/wellness, first aid,

and national security issues in a structured, interactive environment. The Army JROTC program is a cooperative effort on the part of the Department of the Army, the Department of Education, and host institutions to provide secondary school students opportunities for total development.

The program produces successful students and productive adults while fostering in each school a more constructive and disciplined learning environment. Army JROTC is the centerpiece of the Department of Defense's commitment to America's Promise for Youth through its emphasis on service learning, community service and teen anti-drug efforts. Mastery of these concepts is accomplished through classroom and hands-on instruction, placement of cadets in key leadership positions, and participation in co-curricular Teams. Satisfactory completion of the program can lead to advanced placement credit in ROTC Programs (Collegiate level) or advanced rank in the US Armed Forces.

631210A ARMY MILITARY SCIENCE I

Grades 9-12

1 Credit

The first level course engages students in the practice of basic citizenship customs, traditions and in the exploration of opportunities for non-military and military service. The course consists of three units of instruction: Citizenship in Action, Leadership Theory and Application, and Foundation for Success. These modules orient cadets to the purpose of the Army JROTC program, their roles as cadets and the organization of the Department of Defense. Cadet leadership potential is further developed through the application of leadership principles, values, and strategies. Cadets learn to develop and expand their abilities to resolve conflict and prevent violence. This unit helps cadets prepare for life after high school by reinforcing the importance of career and personal financial planning.

631220A ARMY MILITARY SCIENCE II

Grades 10-12

1 Credit

Prerequisite: Army Military Science I

The second level of Military Science builds on the first year of instruction. The curriculum focuses on Wellness, Fitness and First Aid where cadets are provided information and strategies needed to take responsibility for their physical and mental wellness, learn how to assess their level of fitness, develop plans for nutrition and exercise improvement habits, and learn strategies to control stress. This unit also helps cadets to make responsible choices about substance use and measures and develop proficiency in providing basic first aid. In Geography, Map Skills, and Environmental Awareness, cadets learn map reading and land navigational skills and develop global awareness as they compare physical, political, economic and cultural elements of continents, regions, and countries.

631230A ARMY MILITARY SCIENCE III

Grades 11-12

1 Credit

Prerequisite: Army Military Science II

The third level of Military Science instruction incorporates Citizenship in American History and Government, while continuing to expand the cadet's knowledge acquired in previous units. The curriculum builds on the basic skills and interest for participation in civic and political life. Cadets actively engage in the curriculum to explore the origins, structure, rights, and responsibilities of the American constitutional government. Cadets learn to apply problem solving strategies to current political and social issues. In addition, cadets are placed in positions of greater responsibility within the chain of command and staff to manage administrative and leadership responsibilities.

631240A ARMY MILITARY SCIENCE IV

Grade 12

1 Credit

Prerequisite: Army Military Science III

The fourth level of Military Science provides an opportunity for cadets to apply the knowledge learned during the previous three years of instruction. Cadets serve as assistant instructors for selected subjects. Fourth year cadets are responsible for the daily cadet Administration of the Corps of Cadets and perform in command and staff positions. Key components of the fourth year of instruction are development and implementation of Service Learning and Community Service initiatives within the secondary school environment and surrounding communities. Level IV cadet leaders serve as lead planners for the annual Military Ball, Awards Ceremony, major field trips and Co-Curricular Team competitions.

Marine Corps JROTC (School Offering: Mountain View High School and Hartwood High School)

The Marine Corps JROTC (MCJROTC) is a cadet-run organization that teaches basic leadership, discipline, self-confidence, and encourages teamwork. Cadets are taught basic military knowledge, rules, regulations, and etiquette. Cadets are given opportunities to gain leadership roles and join MCJROTC teams. There is no obligation to join the military by taking MCJROTC courses, but cadets receive multiple benefits if they do decide to join any of the four services.

MCJROTC cadets also participate in a number of outside activities throughout the school year and during the summer months. These opportunities are designed to stimulate learning by hands-on experience and to reinforce classroom instruction. Some of these co-curricular activities include the Drill, Air Rifle Marksmanship, CyberPatriot, and Raider Challenge Teams and community service events. Military/leadership training and orientation visits to various military bases and local colleges may be taught during the summer months.

631310M MARINE CORPS MILITARY SCIENCE I

Grades 9-11

1 Credit

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.

631320M MARINE CORPS MILITARY SCIENCE II

Grades 10-12

1 Credit

Prerequisite: Marine Corps Military Science I

This second course builds on the general introduction provided in Marine Corps I, to further develop the traits of citizenship and leadership in cadets, and to introduce cadets to technical areas of marine science. The course provides ongoing history, communication techniques, disciplined study habits, management skills, first aid, drug abuse prevention, map reading, physical fitness, and workplace readiness skills.

631330M MARINE CORPS MILITARY SCIENCE III

Grades 11-12

1 Credit

Prerequisite: Marine Corps Military Science II

This third course broadens the understanding of students in the operative principles of military leadership, the concept and significance of teamwork, the intrinsic value of good order and discipline in the accomplishment of objectives, the fundamentals of American democracy, and to expand their understanding of marine academic subjects. The course provides ongoing instruction in leadership and discipline, Military Justice, International Law and the Sea, National Strategy, Maneuvering Board, Challenges of Future, Marine Research, Electricity, and Marine Electronics.

631340M MARINE CORPS MILITARY SCIENCE IV

Grade 12

1 Credit

Prerequisite: Marine Corps Military Science III

This fourth course focuses solely on practical leadership. The intent is to assist students in understanding leadership and improving their leadership skills by putting them in positions of leadership, under supervision, then helping them analyze the reasons for their varying degrees of success throughout the year. Classroom activities include seminars, reading assignments, classroom presentations, and practical work with younger cadets. The course curriculum includes instruction in theoretical and applied aspects of leadership, training, and evaluation of performance. Students will become aware of the techniques used to create motivation, develop goals and activities for a work group, and the proper ways to set a leadership example. Cadets will also apply these principles when dealing with younger cadets in the areas of military drill and inspections, athletic events, and in other school activities.

Navy JROTC (Schools Offering: Brooke Point and Stafford High Schools)

NJROTC is a cadet-run organization that teaches basic leadership, discipline, self-confidence, and encourages teamwork. Cadets are taught basic military knowledge, rules, regulations, and etiquette. Cadets are given opportunities to gain leadership roles and join JROTC teams. There is no obligation to join the military by taking JROTC courses, but cadets receive multiple benefits if they do decide to join any of the four services.

NJROTC cadets also participate in a number of outside activities throughout the school year and during the summer months. These opportunities are designed to stimulate learning by hands-on experience and to reinforce classroom instruction. Some of these activities include: School and local activities such as drill teams, rifle teams, orienteering, unit athletics, parades, field days, and nonpolitical community activities. Military/leadership training, orientation visits to various naval and military bases, and cruises aboard U.S. naval vessels may be taught during the summer months.

631410N NAVY MILITARY SCIENCE I

Grades 9-11

1 Credit

This first course introduces students to the meaning of citizenship, the elements of leadership, and the value of scholarship in attaining life goals; engenders a sound appreciation for the heritage and traditions of America, with recognition that the historically significant role of sea power will be important in America's future; and develops in each cadet a growing sense of pride in his/her organization, associates, and self. These elements are pursued at the fundamental level. The course includes Maritime Geography, Sea Power, Introductions to Navigation, Health Education, First Aid, and Drug, Alcohol, and Tobacco Abuse Prevention.

631420N NAVY MILITARY SCIENCE II

Grades 10-12

1 Credit

Prerequisite: Navy Military Science I

This second course builds on the general introduction provided in Naval Science 1, to further develop the traits of citizenship and leadership in cadets, introduce cadets to technical areas of naval science, and engender a deeper awareness of the vital importance of the world oceans to the continued well-being of the United States. The course provides ongoing instruction in leadership theory, Naval Orientation, Citizenship, Maritime History, and Nautical Sciences including Oceanography, Meteorology, Astronomy and Physical Science.

631430N NAVY MILITARY SCIENCE III

Grades 11-12

1 Credit

Prerequisite: Navy Military Science II

This third course broadens the understanding of students in the operative principles of military leadership, the concept and significance of teamwork, the intrinsic value of good order and discipline in the accomplishment of objectives, the fundamentals of American democracy, and to expand their understanding of naval academic subjects. The course provides ongoing instruction in leadership and discipline, Military Justice, International Law and the Sea, National Strategy, Maneuvering Board, Challenges of Future, Navy Research, Electricity, and Naval Electronics.

631440N NAVY MILITARY SCIENCE IV

Grade 12

1 Credit

Prerequisite: Navy Military Science III

This fourth course focuses solely on practical leadership. The intent is to assist students in understanding leadership and improving leadership skills through leadership positions, under supervision, then helping them analyze the reasons for their varying degrees of success throughout the year. Classroom activities include seminars, reading assignments, classroom presentations, and practical work with younger cadets. The course curriculum includes instruction in theoretical and applied aspects of leadership, training, and evaluation of performance. Students will become aware of the techniques used to create motivation, develop goals and activities for a work group, and the proper ways to set a leadership example. Cadets will also apply these principles when dealing with younger cadets in the areas of military drill and inspections, athletic events, and in other school activities.

Agriculture and Natural Resources

Future Farmers of America (FFA) is the co-curricular organization for horticulture students.

632710 HORTICULTURE SCIENCES

Grades 9-12

1 Credit

Students develop the necessary knowledge, skills, habits, and attitudes for entry-level employment and advancement in areas such as floriculture, landscape design, greenhouse operation, nursery plant production, and turf management. They receive instruction in using soil and other plant-growing media and in identifying, propagating, and growing horticultural plants in the greenhouse and land laboratory.

Schools offering course: NSHS

632720 GREENHOUSE PLANT PRODUCTION AND MANAGEMENT

Grades 10-12

1 credit

Recommended Prerequisite: Horticulture Sciences

Students enrolled in this course learn the operating procedures for a greenhouse. Units of instruction in this course include identification of plants; growing greenhouse crops; producing and maintaining nursery crops; establishing, maintaining, and designing landscape planting; establishing and maintaining turf grass; and operating a flower shop and garden center.

Schools offering course: NSHS

632730 LANDSCAPING I

Grades 11-12

1 Credit

Recommended Prerequisite: Horticulture Sciences

In this course, students develop knowledge, skills, habits, and attitudes for entry-level employment and advancement in areas such as landscape design, landscape construction, and landscape maintenance. They 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.

Schools offering course: NSHS

632740 LANDSCAPING II

Grades 11-12

1 Credit

Note: Students must be concurrently enrolled in Landscaping I and Landscaping II.

Prerequisite: Landscaping I

In this course, students will gain practical experiences in landscape design, landscape construction, and landscape maintenance. Students will use technology; plant and soil science; landscaping tools, equipment, and machinery; and business management fundamentals to prepare for a variety of landscaping employment and postsecondary educational opportunities. Students will explore the management of landscape enterprises and continue to develop the soft skills necessary for success in the landscaping industry.

Schools offering course: NSHS

Business and Information Technology

Future Business Leaders of America (FBLA) is the co-curricular organization for Business and Information Technology students.

633110 ACCOUNTING I**Grades 10-12****1 Credit*****Recommended Prerequisite: Digital Applications***

Students study the basic principles, concepts, and practices of the accounting cycle for various business structures with an emphasis on sole proprietorships and partnerships. Students learn fundamental accounting procedures using manual and electronic systems.

633120 ACCOUNTING II**Grades 11-12****1 Credit*****Prerequisite: Accounting I***

Students gain in-depth knowledge of accounting procedures and techniques used to solve problems and make financial decisions for various business structures with an emphasis on corporations. Students also learn to use accounting and/or spreadsheet software to analyze and interpret business applications.

633210 BUSINESS LAW**Grades 11-12****1 Credit**

Students examine the foundations of the American legal system by learning concepts related to laws affecting business and individuals. Topics include contracts, individual rights and responsibilities, crimes, law enforcement, and the courts.

633220 BUSINESS MANAGEMENT**Grades 10-12****1 Credit**

Students study management concepts and leadership styles as they explore business functions, economics, various business structures, and management responsibilities. Supervision, human relations, communication, and employability skills are enhanced.

6332205 IB BUSINESS MANAGEMENT (SL)**Grades 11 or 12****1 Credit#****Note: This course can be used to satisfy the Group 6 “art or elective” requirement for full IB Diploma Program students.**

Business and Management is a one-year course designed to provide a broad introduction to the principles and practices of organizations, set in a scene of international markets, exchange, and production. A written assessment based on the application of tools, techniques, and theory to a real business situation or problem is internally assessed by the classroom teacher.

6332206 DUAL ENROLLMENT BUSINESS MANAGEMENT**Grades 10-12****1 Credit#**

This dual enrollment course exposes students to the functions and topics of modern business, including: economics, management, finance, accounting, marketing, production, international business, and small business. Students study management concepts and leadership styles as they explore various business structures and management responsibilities. Supervision, human relations, communication, decision making and employability skills are enhanced in this one year dual enrollment course.

633320 COMPUTER INFORMATION SYSTEMS I

Grades 9-12

1 Credit

Recommended Prerequisite: Digital Applications

Students use introductory word processing, spreadsheet, database, and presentation software to complete practical application and software integration activities. They explore computer concepts, operating systems, and emerging technologies.

633330 COMPUTER INFORMATION SYSTEMS II

Grades 10-12

1 Credit

Prerequisite: Computer Information Systems I

Students apply problem solving through advanced word processing, spreadsheet, database, presentation, and integration of software. They learn advanced computer concepts, operating systems, and emerging technologies.

6385105 IB COMPUTER SCIENCE SL

Grades 11-12

Suggested Prerequisites: AP Computer Science Applications or AP Computer Science Principles or Programming I

IB Computer science is the study of computers and computational systems. It covers a range of topics related to the theoretical aspects of computing, including algorithms and software design, and the application of computer science to solve practical problems. Computer science is distinct from the natural sciences in that it does not rely on hypothesis and experimentation. Computer science can be considered to be cross-disciplinary, as it draws from a range of disciplines, especially mathematics.

Schools Offering Course: MVHS

633410 CYBERSECURITY I

Grades 10-12

1 Credit

Prerequisite: Information Technology Fundamentals

Students will be introduced to the principles of cybersecurity, explore emerging technologies, examine threats and protective measures, and investigate the diverse high-skill, high-wage, and high-demand career opportunities in the field of cybersecurity. Cybersecurity affects every individual, organization, and nation. This course focuses on the evolving and all-pervasive technological environment with an emphasis on securing personal, organizational, and national information. Skills related to information technology basics, Internet fundamentals, network systems, computer maintenance/upgrading/troubleshooting, computer applications, programming, graphics, Web page design, and interactive media are introduced.

633420 CYBERSECURITY II

Grades 11-12

1 Credit

Prerequisite: Cybersecurity I

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

633430 CYBERSECURITY III

Grades 11-12

1 Credit

Prerequisite: Cybersecurity II

Students explore security analysis and network security, monitoring and detecting security incidents in information

BPHS=Brooke Point CFHS=Colonial Forge HHS=Hartwood MVHS=Mountain View NSHS=North Stafford SHS=Stafford
#-Weighted Course

systems and networks. The course introduces tools and tactics to manage cybersecurity risks, identify common threats, evaluate an organization's security, collect and analyze cybersecurity intelligence, and handle cybersecurity incidents. Students will understand threats, attacks and vulnerabilities, architecture and design considerations in a business environment, implementation of security operations, risk and incident response, ethics, and cryptography. Instruction will emphasize industry certification preparation.

Schools offering course: CFHS

633500 DATABASE DESIGN AND MANAGEMENT

Grades 10-11

1 Credit

Prerequisite: Information Technology Fundamentals

This course includes database design and Structured Query Language (SQL) programming. Students study database fundamentals, including database development, modeling, design, and normalization. In addition, students are introduced to database programming with SQL. Students gain the skills and knowledge needed to use features of database software and programming to manage and control access to data.

Schools offering course: BPHS, CFHS

633510 DESIGN, MULTIMEDIA, AND WEB TECHNOLOGIES I

Grades 10-12

1 Credit

Recommended Prerequisite: Digital Applications or Computer Information Systems I

Students develop skills in creating desktop publications, multimedia presentations/projects, and websites using industry standard application software. Students incorporate principles of layout and design in completing publications and projects.

633520 DESIGN, MULTIMEDIA, AND WEB TECHNOLOGIES II

Grades 10-12

1 Credit

Prerequisite: Design, Multimedia, and Web Technologies I

Students develop advanced skills in creating interactive media, websites, and publications for print and electronic distribution. Students design portfolios that may include business cards, newsletters, mini-pages, webpages, multimedia presentations/projects, calendars, and graphics.

633530 DIGITAL APPLICATIONS

Grades 9-12

1 Credit

This course is designed for secondary school students to develop real-life, outcome-driven approach skills for digital citizenship, basic computer operations, keyboarding, application software (word processing, spreadsheets, multimedia applications, databases), and career exploration. This course promotes skills that can be applied across the curriculum and offers preparation relevant to 21st century skills and post-secondary education.

633000 ECONOMICS AND PERSONAL FINANCE (also listed under History and Social Sciences)

Grades 10-12

1 Credit

This course presents economic concepts, the interdependence of the world's economies, and skills necessary to navigate the financial decisions faced to make informed decisions related to career exploration, budgeting, banking, credit, insurance, spending, taxes, saving, investing, buying/leasing a vehicle, living independently, and inheritance. Developing financial literacy skills and understanding economic principles will provide the basis for responsible citizenship and career success. The course will assist in the development of thinking skills that include analyzing real-world situations, economic reasoning, decision-making, and problem-solving. To assist in meeting diploma requirements for graduation, all students will complete an online learning experience through completion of the Ever-Fi Financial Literacy module.

633310 INFORMATION TECHNOLOGY FUNDAMENTALS

Grades 9-11

1 Credit

Information Technology Fundamentals introduces the essential technical and professional skills required for students to pursue programs leading to professional careers and information technology certifications. The course introduces skills related to digital technology, digital applications, maintenance/upgrading/ troubleshooting, and networking fundamentals. Students also explore ethical issues related to computers and Internet technology and examine web pages and game design.

6336108 JAVA PROGRAMMING

Grade 12

1 Credit

Prerequisite: Database Design and Management

Students continue to study Java in preparation for industry certification. Students will also complete an independent or collaborative project where they develop a program to benefit their community. Students may have the opportunity to participate in mentoring with industry professionals.

Schools offering course: BPHS

634000 PRINCIPLES OF BUSINESS AND MARKETING

Grades 9-10

1 Credit

Students explore business and marketing roles in the global economy. They learn to make decisions as consumers, wage earners, and citizens. Students will also enhance their interpersonal, communication, and employability skills.

633611 PROGRAMMING I

Grades 10-12

1 Credit

Recommended Prerequisite: Information Technology Fundamentals Digital Applications or Computer Information Systems I

Students explore essential computer concepts, apply logical thinking, and develop programming skills using one or more languages, such as HTML, CSS, and JavaScript. They will have the opportunity to design and build their own webpage and create a custom multi-level video game..

6336116 DUAL ENROLLMENT PROGRAMMING I

Grades 10-12

1 Credit#

Recommended Prerequisite: Information Technology Fundamentals

This dual enrollment course provides an exploration of construction, algorithm development, coding, debugging, and documentation of console and graphical user interface applications, principles and practices of software development. Includes instruction in critical thinking, problem solving skills, and essential programming logic in structured and object-oriented design using contemporary tools.

Schools offering course: CFHS

633612 PROGRAMMING II

Grades 11-12

1 Credit

Prerequisite: Programming I

Building on a foundation of programming skills, students will use object-oriented programming to develop applications for Windows, databases, multimedia, games, and/or mobile and web environments. They will also have the opportunity to design and develop a custom multiplayer video game.

6336126 DUAL ENROLLMENT PROGRAMMING II

Grades 11-12

1 Credit#

Prerequisite: Programming I or DE Programming I

Dual Enrollment courses that provide skills for solving complex problems and working with advanced topics using object-oriented programming. Topics include data structures, graphical user interfaces, simple database connectivity, sorting, and searching.

School Offering course: CFHS

6336118 STAT PROGRAMMING

Grades 10-12

1 Credit

Recommended Prerequisite: Information Technology Fundamentals

This speciality course is exclusive to the STAT Information Technology cohort. This course teaches the fundamentals of programming through computer concepts, use logic procedures, and implement programming procedures using one or more programming languages. Students use object-oriented programming to develop database applications, interactive multimedia applications including game applications, mobile applications, and web applications. Students continue to develop their employability skills as they research pathways for continuing education and careers in the information technology industry.

School offering course: BPHS

Marketing

Distributive Education Clubs of America (DECA) is the co- curricular organization for marketing students.

634100 DIGITAL AND SOCIAL MEDIA MARKETING

Grade 10-12

1 Credit

Prerequisite:

This course introduces students to digital and social media marketing. Students explore principles, strategies, tools, and tactics related to consumers, branding, advertising, and promotions. Students explore how success is measured in a digital and social media marketing campaign. This course emphasizes ethics, laws, and security. Students also investigate business and marketing plans, and careers in digital and social media marketing.

School offering course: CFHS

634500 EMPLOYMENT FOR EDUCATION I

Grades 9-11

1 Credit

Prerequisite: Application and Interview

This course is available to 9th, 10th and 11th grade students to complete an application and interview process, and if selected, will be enrolled by their case manager. The course enables students to make informed career and continuing education choices as they transition from school, gain technical skills, and adapt to the workplace. Students will learn ethical behaviors and career-research, job-acquisition, workplace-communication, self-awareness, self-advocacy, customer-service, and life skills. Students explore labor market needs through an applied employment education format.

634210 FASHION MARKETING I

Grades 10-12

1 Credit

Recommended Prerequisite: Interest in fashion career

Students develop general marketing skills necessary for successful employment in fashion marketing, general marketing skills applied to the apparel and accessories industry, and specialized skills unique to fashion marketing. Personal selling, sales promotion, purchasing, physical distribution, market planning, and product/ service technology are part of this course.

634220 FASHION MARKETING II

Grades 11-12

1 Credit

Prerequisite: Fashion Marketing I

Students with a career interest in fashion marketing gain in-depth knowledge of the apparel and accessories industry and skills important for supervisory-management employment in apparel businesses. They develop advanced skills unique to fashion marketing and advanced general marketing skills applied to the apparel and accessories industry. Professional selling, sales promotion, buying, merchandising, marketing research, product/ service technology, and supervision related to the content are part of this course.

634300 MARKETING

Grades 10-12

1 Credit

Students are introduced to the functions and foundations involved in the marketing of goods, services, and ideas and achieve the skills necessary for successful marketing employment. Students study risk management, selling, promotion, pricing, purchasing, marketing-information management, product/service planning, distribution, and financing. Foundation skills include economics, human resources, and marketing and business abilities necessary for success in marketing occupations.

634310 STRATEGIC MARKETING

Grades 11-12

1 Credit

Recommended Prerequisite: Marketing

Students learn to leverage marketing activities to best differentiate themselves and their businesses. Students will also participate in supervisory and management activities focusing on the marketing mix, purchasing, financing, human resources, global marketing, pricing, distribution, selling, operations research, and promotion. Students will prepare for marketing careers and postsecondary education, continuing to enhance self-presentation, communication, and leadership skills. Students may participate in DECA, a co-curricular event as a part of the course.

634400 SPORTS AND ENTERTAINMENT MARKETING

Grades 10-12

1 Credit

Students are introduced to the functions and foundations involved in the marketing of goods and services as they relate to the sports, entertainment, and recreational marketing field. Students develop skills in the areas of marketing analysis, event marketing, communications, and human relations.

634410 SPORTS AND ENTERTAINMENT MANAGEMENT

Grades 11-12

1 Credit

Prerequisite: Sports and Entertainment Marketing

Students will continue their study of the sports, entertainment, and recreation (SER) industry including the impact of electronic commerce and international marketing in this area. Other topics include market research, market segmentation, and sponsorship and planning, implementing, and evaluating SER events, working with agents and personal managers, and appraising the role of labor unions in SER. Additional study will be focused on developing a career plan in the sports, entertainment, and recreation area.

Health and Medical Sciences

HOSA-Future Health Professionals is the co-curricular organization for Health and Medical Sciences students.

635210 EMERGENCY MEDICAL TECHNICIAN I**Grades 11-12****1 Credit*****Recommended Prerequisite: Introduction to Health and Medical Sciences, and /or Biology II: Anatomy and Physiology***

This program is accredited by the Virginia Office of Emergency Medical Services (OEMS) and requires students to be 16 years of age by the first day of school, provide documentation of immunizations and a negative drug screen, capability to read technical reading level of at least grade 10, and a social security number. For detailed information on OEMS requirements, please refer to the Emergency Medical Technician pathway in the "Other Secondary Programs" section of this document. In these courses, students become skilled in identifying and dealing with emergencies such as bleeding, fractures, airway obstruction, and cardiac arrest. Instruction emphasizes proper care and use of common emergency equipment and safe methods for lifting, moving, and transporting injured persons. Supervised on-the-job training and patient-care experiences are part of the instructional program. Program completers may take the EMT state certification examination administered by the Virginia Department of Health. Students are encouraged but not required to consider membership with a volunteer rescue organization. NOTE: The EMT courses require students to devote time outside the school day to participate in related activities occurring in the evening and on weekends. Cardiopulmonary Resuscitation (CPR) certification is required prior to the start of class through AHA Healthcare provider or ARC Professional Cardiopulmonary Resuscitation.

Schools offering course: CFHS, SHS**635220 EMERGENCY MEDICAL TECHNICIAN II****Grades 11-12****1 Credit****Note: See description for EMT I above. Students must be concurrently enrolled in EMT I and EMT II.*****Prerequisite: EMT I******Schools offering course: CFHS, SHS*****635240 EMERGENCY MEDICAL TELECOMMUNICATIONS****Grades 10-12****1 Credit**

Emergency Medical Telecommunications is designed to develop entry-level skills needed in a telecommunication environment for rescue, fire, and police. The course provides the beginning telecommunicator with an understanding of situations encountered in an emergency communications environment. Upon completion, the student will be able to: summarize issues involving the telecommunication's role and responsibilities as a member of health and public safety environment; summarize issues involving available resources to a telecommunicator; the importance of maintaining confidentiality, liability and legal issues involving emergency telecommunicators and their agencies; summarize the process of stress management for inside and outside a communications department/center.

Schools offering course: CFHS, MVHS, SHS**635100 HEALTH INFORMATICS****Grades 10-12****1 Credit*****Recommended Prerequisite: Introduction to Health and Medical Sciences***

Students will have the opportunity to explore the importance of safeguarding electronic healthcare information. Students will be introduced to the various technologies and trends impacting the healthcare industry. Students will explore aspects of health informatics to include the history of health information technology (IT) in the United States, the Electronic Health Record (EHR), ethical and privacy issues, and cybersecurity and data breaches.

Schools offering course: BPHS**635000 INTRODUCTION TO HEALTH AND MEDICAL SCIENCES****Grades 9-12****1 Credit*****Schools offering course: BPHS, CFHS, SHS***

This course emphasizes the development of basic skills common to health care. Students explore the diverse opportunities available in the healthcare industry, and the educational requirements, personal characteristics, and

professional responsibilities for specific fields of interest. The anatomy, physiology, and pathophysiology of the human body, medical terminology, infection control, and legal, ethical, and consumer issues pertaining to health care are studied. CPR and First Aid certifications are obtained. This course is designed for any student interested in any aspect of the healthcare industry.

635410 MEDICAL ASSISTANT I

Grades 11

2 Credits

Recommended Prerequisite: Introduction to Health and Medical Sciences

Students develop basic skills and techniques to assist the physician and/or other medical professionals in patient examinations, basic emergency care, simple laboratory tests, preparation for minor surgical procedures, and administrative duties and will gain foundation knowledge in basic anatomy and physiology, medical ethics and legal responsibilities. Students also explore medical assisting career pathways.

Schools offering course: BPHS, MVHS

635420 MEDICAL ASSISTANT II

Grades 12

2 Credits

Note: May be concurrently enrolled with Medical Assistant I

Prerequisite: Medical Assistant I

In this course, students apply and implement medical-assisting skills and techniques learned in Medical Assistant I. They learn management of health records, collection and analysis of laboratory specimens, special diagnostic testing related to basic diseases and disorders, and care and use of equipment. Advanced on-the-job clinical experience in a healthcare facility is a part of the course. Successful completion of Medical Assistant I and Medical Assistant II, may lead to employment in a healthcare setting and an industry credential as a Certified Clinical Medical Assistant (CCMA).

Schools offering course: BPHS, MVHS

635810 MENTAL HEALTH ASSISTING CAREERS I

Grade 11

2 credits

Prerequisite:

This course provides classroom instruction and hands-on learning in preparation for a career as a mental health technician or in the mental health field. Students gain an understanding of how to provide routine care and perform therapeutic procedures, respond to emergency situations, provide patient rehabilitation, and facilitate patient recreational activities. They prepare to assist mental health professionals in hospitals, outpatient clinics, and community mental health facilities.

Schools offering course: BPHS

635510 NURSE AIDE

Grade 12

1 Credit

Recommended Prerequisite: Introduction to Health and Medical Sciences (including clinical experience)

This course emphasizes advanced skills obtained in a variety of health care facilities under the supervision of an instructor. Communication and interpersonal skills, infection-control, safety and emergency procedures, recognition of changes in body functioning, personal care needs of both the long-term care and acute care patient are studied. The legal aspects of practice as a certified nurse aide and occupational health and safety measures are also included.

Students will be required to purchase a scrub uniform, white shoes without a logo, and a watch with a second hand. The instructor will provide a description and cost of the scrub uniform during the first week of class. Local healthcare facilities will be utilized for clinical experience. As part of the clinical affiliation agreements, students may be required to obtain a Tuberculosis screening (PPD), a urine drug screening, a flu vaccine, and a COVID-19 vaccine. All screenings and vaccines (except COVID-19) must be dated after August of the school year they are entering. The required screenings and vaccines for each clinical facility will be announced in the first month of class and are required prior to the clinical experience. This course is approved by the State Board of Nursing and will qualify the student for participation in the Virginia Nurse Aide Competency Evaluation Program (required for certification). Transportation to the clinical sites is provided.

Schools offering course: BPHS

Family and Consumer Sciences

Family, Career and Community Leaders of America (FCCLA) is the co-curricular organization for Family and Consumer Sciences students.

636000 CHILD DEVELOPMENT AND PARENTING

Grades 10-12

1 Credit

Students focus on assessing the impact of the parenting role in society, taking responsibility for individual growth within the parenting role, preparing for a healthy emotional and physical beginning for parent and child, and meeting developmental needs of children and adolescents.

636110 CULINARY ARTS I

Grades 10-11

2 Credits

Note: The work in this course requires that the student comply with the regulations of the Virginia Health Department in preparing and serving food sold to the public.

This course is designed to teach basic skills in the culinary arts. Labs offer hands-on experience in all areas of the food service industry. Students will be able to enter the food service job market or continue their education in culinary arts. Culinary courses require students to participate in learning experiences outside the school day including evenings and weekends. Students may participate in an immersive work based learning including operating in school cafes and a mobile food trailer.

Schools offering course: BPHS, MVHS, SHS

636120 CULINARY ARTS II

Grades 11-12

2 Credits

Note: The work in this course requires that the student comply with the regulations of the Virginia Health Department in preparing and serving food sold to the public.

Prerequisite: Culinary Arts I

This course provides instruction in skills related to food preparation, development of personal qualities for job success, and a working knowledge of employment opportunities in the food industry. Culinary courses require students to participate in learning experiences outside the school day including evenings and weekends. Students may participate in an immersive work based learning including operating in school cafes and a mobile food trailer.

Schools offering course: BPHS, MVHS, SHS

636130 CULINARY ARTS SPECIALIZATION

Grade 12

1 credit

Note: The work in this course requires that the student comply with the regulations of the Virginia Health Department in preparing and serving food sold to the public. In addition, students must interview with the teacher prior to enrollment to determine an area of specialization.

Prerequisite: Culinary Arts II and pass the Culinary Arts II end-of-the-year assessment

This course provides students with an opportunity to enhance their skills in planning menus, applying nutritional principles, implementing sanitation and safety standards, and exploring careers. Students have the prospect of specializing in areas based on the student's post secondary education or career goals. Critical thinking, practical problem solving, and entrepreneurial opportunities within the field of culinary arts are emphasized. Culinary courses require students to participate in learning experiences outside the school day including evenings and weekends. Students may participate in an immersive work based learning including operating in school cafes and a mobile food trailer.

Schools offering course: BPHS, MVHS, SHS

636210 EARLY CHILDHOOD, EDUCATION, AND SERVICES I**Grades 10-11****2 Credits**

Students prepare for employment or continuing education in childcare and early childhood education. Emphasis will be placed on development, implementation, and evaluation of learning activities through first-hand experiences working with young children in an on-site lab setting.

Schools offering course: BPHS, NSHS

636220 EARLY CHILDHOOD, EDUCATION, AND SERVICES II**Grades 11-12****2 Credits**

Prerequisite: Early Childhood, Education, and Services I

This course is an extension of Early Childhood Education I. It is recommended for those students interested in child-related careers. Emphasis will be placed on occupational functions of early childhood educators. Students continue to obtain on-site lab experiences. Students expand their knowledge of legal, ethical, and education and training requirements for early childhood professionals. Reviewing knowledge, skills, and aptitudes required for careers in early childhood careers and creating a professional portfolio assist students with demonstrating college and career readiness.

Schools offering course: BPHS, NSHS

636010 FAMILY RELATIONS**Grades 9-12****1 Credit**

Students enrolled in Family Relations focus on identifying factors that build and maintain relationships, developing communication patterns that enhance family, friends, and work-related relationships, dealing effectively with family and peer stressors and conflicts.

636410 INTRODUCTION TO FASHION CAREERS**Grades 9-12****1 Credit**

Students in Introduction to Fashion Careers focus on identifying and exploring the individual careers within the apparel, accessory, and textile design, manufacturing, and merchandising industry. Units of study include the relationships that exist among all areas of the clothing industry; related global and economic issues; apparel, accessory, and textile technology; exploration of careers, including entrepreneurial opportunities in related areas; and the skills and personal characteristics necessary for success in careers in the apparel, accessory, and textile design, manufacturing, and marketing industry.

636420 INTRODUCTION TO INTERIOR DESIGN**Grades 9-12****1 Credit**

The home furnishings and design competencies focus on careers that relate to the elements and principles of design, cultural impact on the environment, decision-making skills for housing and home furnishings, development of artistic skills, and environmental issues. Emphasis will be placed on basic math, science, and communication skills.

636020 LIFE PLANNING**Grades 9-12****1 Credit**

This course equips students with the skills needed to face the challenges of today's society. Students will develop a life-management plan which includes developing career, community, and life connections; healthy relationships; financial planning; and leadership within the community. Critical thinking and practical problem solving are emphasized through relevant life applications.

636030 NUTRITION AND WELLNESS

Grades 9-12

1 Credit

Schools offering course: BPHS, CFHS, MVHS, NSHS, SHS

Students focus on making choices that promote good health, analyzing relationships between psychological and social needs and food choices, choosing foods that promote wellness, obtaining and storing food for self and family, preparing and serving nutritious meals and snacks, selecting and using equipment for food preparation, and identifying strategies to promote optimal nutrition and wellness of society. Teachers highlight the basic skills of math, science, and communication when appropriate in the content.

Technology and Engineering Education

Technology Student Association (TSA) is the co-curricular organization for Technology Education students.

637000 COMMUNICATION SYSTEMS

Grades 9-12

1 Credit

Communication Systems provides experiences in the fields of imaging technology, graphic productions, video and media, technical design, and various modes of communicating information through the use of data. Students develop critical-thinking and problem-solving skills using the universal systems model. Students also learn about the impact of communication on society and potential career fields relating to communications.

Schools offering course: CFHS

637100 TECHNICAL DRAWING AND DESIGN

Grades 9-12

1 Credit

This course provides the student a working knowledge of the language, tools, and practices of technical drawing. Technical drawing is the universal language of design. The focus of this course is to teach the student how to graphically communicate ideas using lines, symbols, and notations. In addition, the student will learn to visualize and project objects in two-dimensional and three-dimensional form. Traditional drawing equipment and a computer-aided drafting and design (CADD) system will be used to teach technical drawing concepts. This course will give the student an opportunity to explore a skill that is creative, practical, and useful in industrial design, architecture, technical illustration, engineering, construction, and computer graphics.

Schools offering course: BPHS, CFHS, MVHS, NSHS

637110 ARCHITECTURAL DRAWING AND DESIGN

Grades 10-12

1 Credit

Prerequisite: Technical Drawing and Design

This course offers the student an opportunity to simulate the role of an architect by solving a residential design problem using a series of steps called "the design process." The student will learn and follow accepted architectural design principles and drawing practices to arrive at their individual solution to the design problem. Classroom activities will include sketching preliminary ideas, drawing a presentation floor plan and presentation elevation drawing, and building a scaled architectural model. Architectural-related occupations will be explored during the year. Drawing/ modeling tools and supplies are provided.

Schools offering course: BPHS, CFHS, MVHS, NSHS

637120 ANIMATION AND DIGITAL CONTENT TECHNOLOGY

Grades 10-12

1 Credit

Recommended Prerequisite: Technical Drawing and Design, Communication Systems or Imaging Technology

Students will gain experiences related to computer animation by solving problems involving 3D object manipulation, storyboarding, texture mapping, lighting concepts, and environmental geometry. They will produce animations that include interdisciplinary projects related to science, engineering, and the entertainment industry. A major emphasis will be the production of a portfolio that showcases examples of original student work. Students are encouraged to pursue Technical Drawing and Design, Communication Systems, or Imaging Technology prior to taking this course.

Schools offering course: CFHS

637200 ENGINEERING EXPLORATIONS

Grades 9-12

1 Credit

This course will enable students to examine technology and engineering fundamentals related to solving real-world problems. Students will be exposed to a variety of engineering specialty fields and related careers to determine whether they are good candidates for postsecondary educational opportunities in engineering. Students will gain a basic understanding of engineering history and design, using mathematical and scientific concepts. Students will participate in hands-on projects in a laboratory setting as they communicate information through team-based presentations, proposals, and technical reports.

Schools offering course: CFHS, MVHS, SHS

637210 ENGINEERING ANALYSIS AND APPLICATION

Grades 10-12

1 credit

Prerequisite: Engineering Explorations

Engineering Analysis and Applications is the second of a possible four-course sequence that will allow students to apply the engineering design process to areas of the designed world and examine engineering systems. Students will participate in STEM-based, hands-on projects as they communicate information through team-based presentations, proposals, and technical reports.

Schools offering course: SHS

637220 ENGINEERING CONCEPTS AND PROCESSES

Grades 11-12

1 Credit

Prerequisite: Engineering Analysis and Applications

This course is the third course in a possible four-course sequence for students to learn the applications and design process of engineering. Students form engineering teams and choose a group design problem. Each team uses communications, graphics, mathematics, and community resources to solve problems. Each team learns appropriate information to complete a project. Projects may be models, systems, or products that creatively solve an engineering problem.

Schools offering course: SHS

637230 ENGINEERING DRAWING AND DESIGN

Grades 10-12

1 Credit

Prerequisite: Technical Drawing and Design

In this course students will continue to learn technical drawing concepts with the aid of a CAD system. Lessons are initially arranged at the beginner skill level and progress to the intermediate skill level. The student will use AutoCAD for two-dimensional drawing applications, while three-dimensional solid modeling will be performed with Autodesk Inventor software. The student will be engaged in real-life projects while developing teamwork, design, and problem-solving skills. Several engineering-related occupations will be explored during the year.

School offering course: BPHS, CFHS, MVHS, NSHS

637240 ENGINEERING PRACTICUM**Grades 11-12****1 Credit*****Prerequisite: Engineering Analysis and Applications, Engineering Studies or Engineering Concepts and Processes***

This course will enable students to examine technology and engineering fundamentals related to solving real-world problems. Students examine ethics and intellectual property and design a practicum project, a culmination of knowledge and skill gained in the previous engineering courses. In addition, students continue to investigate engineering specialty fields and related careers to determine whether they are good candidates for postsecondary educational opportunities in engineering. Contextual instruction and student participation in co-curricular career and technical student organization (CTSO) activities will develop leadership, interpersonal, and career skills.

Schools offering course: NSHS, SHS**6372606 DE FOUNDATIONS OF ENGINEERING AND DE ENGINEERING DESIGN****Grades 11-12****1 Credit#**

Foundations of Engineering discusses the engineering profession, including engineering ethics and responsibilities, communications and career paths and different engineering disciplines. This course covers mathematics and science fundamentals used in engineering and describes computational engineering tools and covers the computer programming used in solving engineering problems. DE Engineering Design teaches the fundamentals of engineering design, its processes and tools. This course covers the engineering design process from inception to final design and documentation in addition to computer programming and 3D graphics tools used in engineering design, uses written, oral and graphics communications during the design process, and requires completion of team based design projects.

637250 ENGINEERING STUDIES**Grades 10-12****1 Credit*****Prerequisite: Engineering Explorations***

To learn the applications and design process of engineering, students form engineering teams and choose a group design problem. Each team uses communications, graphics, mathematics, and community resources to solve problems. Each team learns appropriate information to complete a project. Projects may be models, systems, or products that creatively solve an engineering problem.

Schools offering course: CFHS, MVHS**637300 IMAGING TECHNOLOGY****Grades 9-12****1 Credit*****Prerequisite: Communication Systems***

This course covers the principles of design in the creation of images. Students explore the development of imaging as a communication medium and its evolution into the digital realm. Image-editing software allows students to enhance images and develop a portfolio. Investigation focuses on career exploration and the application of photographic and imaging technology across various industries.

Schools offering course: CFHS**637310 MANUFACTURING SYSTEMS I****Grades 9-12****1 Credit**

This course provides an orientation to careers in various fields of manufacturing. Emphasis will be placed on the major systems in manufacturing, including design, working drawings, manufacturing processes, material handling, production planning, measurement systems, labor issues, occupational safety, and quality control. Students participate in teams and produce manufacturing projects that demonstrate critical elements of manufacturing systems.

Schools offering course: BPHS, MVHS

637320 ADVANCED MANUFACTURING SYSTEMS II

Grades 10-12

1 Credit

Prerequisite: Manufacturing Systems I or Production Systems

Students develop an in-depth understanding of automation and its applications in manufacturing. Activities center on flexible manufacturing processes and Computer Integrated Manufacturing (CIM). Students also learn basic computer aided design (CAD) skills and apply those skills toward manufacturing projects. The student will use all facets of the design process to produce a product through a study of basic concepts of manufacturing technology by experiences in forming, separating, combining, assembling and finishing materials used in the production of manufactured goods. Students are expected to use skills and knowledge to design and develop a manufacturing system that can produce consumer products.

Schools offering course: BPHS, MVHS

637330 PRODUCTION SYSTEMS

Grades 9-12

1 Credit

Students understand how products are designed, manufactured, and marketed to the public. This course will also give students the opportunity to experience the construction trades such as drafting, carpentry, cabinetmaking, line production, and assembly line production techniques. A working knowledge of design and problem solving, research and development processes, and materials will be an integral part of this course.

Schools offering course: MVHS

Project Lead The Way (PLTW)

Project Lead The Way, a project-based curriculum designed to engage students in problem solving and STEM learning. To earn the recognition, the student must satisfactorily complete three courses in the pathway – one AP course; one PLTW course; and a third course, either AP or PLTW – and earn a qualifying score of 3 or higher on the AP Exam(s) and a score of Proficient or higher on the PLTW End of Course (EOC) assessment(s). Project Lead the Way courses are weighted as 0.50 additional credit (this includes both Biomedical and Engineering).

638000 INTRODUCTION TO ENGINEERING DESIGN - PLTW

Grades 9-12

1 Credit#

Prerequisite: Algebra I

PLTW Engineering Program introduces students to engineering tools and problem-solving. Through an activity-project-problem-based (APB) approach, students move from structured activities to open-ended projects, applying the engineering design process, math, and science to real-world problems. Working individually and in teams, they document their solutions using engineering notebooks and 3D modeling software. This course is rigorous and fast-paced.

Schools offering course: NSHS STAT Engineering

638100 AEROSPACE ENGINEERING – PLTW

Grades 10-12

1 Credit#

Prerequisite: Introduction to Engineering Design

Aerospace Engineering (AE) dives into the world of flight and space in this activity-project-problem-based (APB) course, students learn how things fly in the air and space by designing and testing parts like wings, engines, and rockets. In addition, students will also use industry-standard software to model orbits and explore how aerospace ideas apply to things like wind turbines and parachutes. Prepare for a challenging and fast-paced course.

Schools offering course: NSHS STAT Engineering

638110 DIGITAL ELECTRONICS – PLTW**Grades 10-12****1 Credit#*****Prerequisite: Introduction to Engineering Design***

In this course, students study electronic circuits that are used to process and control digital signals. The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. In this activity-project-problem-based (APB) course, students will analyze, design, and build digital electronic circuits. While implementing these designs, students will continually hone their professional skills, creative abilities, and understanding of the circuit design process.

Schools offering course: NSHS STAT Engineering**638200 CIVIL ENGINEERING AND ARCHITECTURE – PLTW****Grades 11-12****1 Credit#*****Prerequisites: Algebra II or concurrent enrollment and Digital Electronics or Aerospace Engineering***

This course covers building and site design. Students use mathematics, science, and engineering practices to design residential and commercial projects, documenting their work with 3D architectural software. The course is project-based, moving from structured activities to open-ended problems, and includes both individual and collaborative projects. This accelerated course incorporates engineering calculations, technical documentation, and the use of 3D modeling software.

Schools offering course: NSHS STAT Engineering**638210 COMPUTER INTEGRATED MANUFACTURING – PLTW****Grades 11-12****1 Credit#*****Prerequisite: Algebra II or concurrent enrollment and Digital Electronics or Aerospace Engineering***

The course deepens the skills and knowledge of an engineering student. Students build upon their Computer Aided Design (CAD) experience through the use of Computer Aided Manufacturing (CAM) software. CAM transforms a digital design into a program that a Computer Numerical Controlled (CNC) mill uses to transform a block of raw material into a product designed by a student. Students learn and apply concepts related to integrating robotic systems such as Automated Guided Vehicles (AGV) and robotic arms into manufacturing systems.

Schools offering course: NSHS STAT Engineering**638310 PRINCIPLES OF ENGINEERING - PLTW****Grades 11-12****1 Credit#*****Prerequisite: Algebra II or concurrent enrollment and Digital Electronics or Aerospace Engineering***

Principles of Engineering (POE) introduces students to engineering concepts across multiple disciplines, equipping them with technical skills in 3D modeling, prototyping, programming, and robotics. Students apply the engineering design process to real-world problems in areas like robotics, infrastructure, and sustainability. Through an activity-project-problem-based (APB) approach, they move from structured tasks to open-ended projects, developing skills in technical documentation, problem-solving, critical thinking, collaboration, and communication.

Schools offering course: NSHS STAT Engineering**638320 ENGINEERING CAPSTONE – PLTW****Grade 12****1 credit#*****Prerequisite: Civil Engineering and Architecture, Computer Integrated Manufacturing, or Principles of Engineering*****Note: This course requires concurrent enrollment in Engineering Practicum.**

PLTW Capstone is an open-ended research course where student teams design and develop an original solution to a well-defined problem. Teams research, define, and justify their problem, create design requirements, and explore multiple solutions before selecting, testing, and modeling their prototype. Throughout the process, students work with experts, enhancing their organizational, communication, and problem-solving skills. The course culminates with

teams presenting their solution at Capstone Night.
Schools offering course: NSHS STAT Engineering

638400 PRINCIPLES OF BIOMEDICAL SCIENCE – PLTW

Grades 9-11

1 Credit#

Prerequisite: Biology or concurrent enrollment

This course is designed to provide an overview of all the courses in the Biomedical Science Program and to lay the scientific foundation necessary for student success in the subsequent courses. Students explore concepts of human medicine, research processes, bioinformatics and human physiology. Hands-on projects enable students to investigate human body systems and various health conditions, including heart disease, diabetes, sickle cell disease and infectious diseases. Over the length of the course, students work together to investigate a crime scene and analyze autopsy reports to determine the factors that led to the death of a fictional person. After pinpointing those factors, the students investigate lifestyle choices and medical treatments that might have prolonged the person's life. The key biological concepts embedded in the curriculum include homeostasis, metabolism, inheritance of traits and DNA, feedback systems, and defense against disease.

Schools offering course: BPHS

638410 HUMAN BODY SYSTEMS - PLTW

Grades 10-12

1 Credit#

Prerequisite: Principles of Biomedical Sciences and Biology

Students examine the processes, structures, and interactions of the human body systems to learn how they work together to maintain homeostasis (internal balance) and good health. Using real-world cases, students take on the role of biomedical professionals and work together to solve medical mysteries. Hands-on projects include designing experiments, investigating the structures and functions of body systems, and using data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiratory operation. Important concepts covered in the course are communication, transport of substances, locomotion, metabolic processes, defense, and protection. Exploring science in action, students build organs and tissues out of clay on a skeletal manikin throughout the year.

Schools offering course: BPHS

638420 MEDICAL INTERVENTIONS - PLTW

Grades 11-12

1 Credit#

Prerequisite: Human Body Systems

Recommended Prerequisite: AP Biology or Chemistry Honors or concurrent enrollment in either course

Students investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. The course is a "How-To" manual for maintaining overall health and homeostasis in the body as students explore: how to prevent and fight infection; how to screen and evaluate the code in human DNA; how to prevent, diagnose and treat cancer; and how to prevail when the organs of the body begin to fail. Students are exposed to a wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Lifestyle choices and preventive measures are emphasized and the important role scientific thinking and engineering design play in the development of interventions of the future.

Schools offering course: BPHS

638430 BIOMEDICAL INNOVATION - PLTW

Grade 12

1 Credit#

Prerequisite: Medical Interventions

Recommended Prerequisite: Physics or AP Physics

In this capstone course, students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project and may work with a mentor or advisor from a university, hospital, physician's office, or industry. Throughout the

course, students are expected to present their work to an adult audience that may include representatives from the local business and healthcare community.

Schools offering course: NSHS

Trade and Industrial Education

SkillsUSA is the co-curricular organization for Trade and Industrial students.

639110 COLLISION REPAIR TECHNOLOGY I

Grades 10-11

1 Credit

Students are taught non-structural analysis, damage repair, and welding. Students learn body and frame construction, and the use of hand and power tools. Students work with a variety of materials, using metal finishing and body filling techniques to prepare surfaces and repair panels. Students learn automotive history, practice shop safety, gain career skills, and use custom techniques. This course is taught by Automotive Service Excellence (ASE) certified instructors.

Schools offering course: NSHS

639120 COLLISION REPAIR TECHNOLOGY II

Grades 11-12

2 Credits

Prerequisite: Collision Repair Technology I

In this course, students are taught to repair, mask, and refinish auto body components and entire vehicles. In addition, they use spray guns and personal safety equipment, apply undercoats and topcoats, work with a variety of materials, and gain career skills. Students continue to improve skills in welding and body repair. This course is taught by Automotive Service Excellence (ASE) certified instructors.

Schools offering course: NSHS

639130 COLLISION REPAIR TECHNOLOGY III

Grade 12

2 Credits

Prerequisite: Collision Repair Technology II

Students further apply the tasks/competencies learned in Collision Repair Technology I and II. This course may also be used as a capstone course in which students may improve their auto body skills and move toward employment in the industry. Students who successfully complete this program sequence will be prepared to take and pass the respective ASE exam. This course is taught by Automotive Service Excellence (ASE) certified instructors.

Schools offering course: NSHS

639140 AUTOMOTIVE TECHNOLOGY I

Grades 10-11

1 Credit

Students learn all aspects of repair, safety, and customer service by concentrating on the four primary ASE certified areas: Brakes, Steering and Suspension, Electrical/Electronics and light duty vehicle repair. This course is taught by Automotive Service Excellence (ASE) certified instructors.

Schools offering course: BPHS, NSHS

639150 AUTOMOTIVE TECHNOLOGY II

Grades 11-12

2 Credits

Prerequisite: Automotive Technology I

Students will learn to repair fuel, electrical, cooling, brake, drive train, and suspension systems. Instruction is also given in the adjustment and repair of individual components and systems such as radiators, transmission, and fuel injectors. Students will have the opportunity to apply for job shadowing and internships with local automotive businesses through the Automotive Youth Educational Systems (AYES) program. This course is taught by Automotive Service Excellence (ASE) certified instructors.

BPHS=Brooke Point CFHS=Colonial Forge HHS=Hartwood MVHS=Mountain View NSHS=North Stafford SHS=Stafford
#-Weighted Course

Schools offering course: BPHS, NSHS

639160 AUTOMOTIVE TECHNOLOGY III

Grade 12

2 Credits

Prerequisite: Automotive Technology II

Students will continue to master skills related to suspension and steering, brakes, electrical/ electronic systems, and engine performance. This course is taught by Automotive Service Excellence (ASE) certified instructors.

Schools offering course: BPHS, NSHS

639830 MASTER BARBERING I

Grade 11

3 Credits

Prerequisite: Regular attendance is a requirement to meet clinical hours mandated by the Virginia Department of Professional and Occupational Regulation (DPOR).

Barbering is the study of hair, scalp, and skin. Students study and prepare in a clinical lab setting, using mannequins and live models for manipulative practice. The program emphasizes safety and sanitation, communication, and management skills. Related areas of study include physiology, ethics, and professional image. Students develop skills in hair shaping, finger waves, and face shaving. Students also learn sterilization, hygiene and bacteriology principles. Successful completion of required state competencies and hours prepare the students for the Master Barbering II program. A student must have earned a score of 70% or higher and earned a minimum of 325 hours in Master Barbering I to advance on to Master Barbering II.

Schools offering course: MVHS

639840 MASTER BARBERING II

Grades 11-12

3 Credits

Prerequisite: A passing score of 70% and a minimum of 325 hours earned in Master Barbering I is a requirement to meet clinical hours mandated by the Virginia Department of Professional and Occupational Regulation (DPOR).

Students apply their knowledge of barbering skills in a clinical lab setting, using mannequins and live models for manipulative practice. Students develop skills and technical knowledge relating to hair coloring, facials, and selection of commercial materials. Mastery of 840 hours and successful completion of 490 required state competencies prepare the students for the Virginia state licensing exam.

Schools offering course: MVHS

639240 CABINETMAKING I

Grades 9-11

1 Credit

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

Schools offering course: NSHS

639250 CABINETMAKING II

Grades 10-12

2 Credits

Prerequisite: Cabinetmaking I

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

Schools offering course: NSHS

639210 CARPENTRY I

Grades 10-11

1 Credit

Recommended Prerequisite: Introduction to Construction Trades

Instruction in this course includes the theory and practical application of blueprints and building plans, estimating materials, and finishing of a structure. Proper use of power tools will be demonstrated. Students must successfully complete the 10-hour OSHA Safety Course and comply with OSHA standards throughout the course to be eligible for Carpentry II. Students enrolled at Stafford High School are provided the opportunity to work on the construction of a new home through the Bringing Occupational Opportunities to Students (BOOTS) program.

Schools offering course: BPHS, SHS

639220 CARPENTRY II

Grades 11-12

2 Credits

Prerequisite: Carpentry I

This course includes instruction in the skills that provide additional practical experiences related to the complete structural aspect of a building or dwelling and its finishing work. Students will be expected to comply with all OSHA and class safety practices. Students enrolled at Stafford High School are provided the opportunity to work on the construction of a new home through the Bringing Occupational Opportunities to Students (BOOTS) program.

Schools offering course: BPHS, SHS

639230 CARPENTRY III

Grades 12

2 Credits

Prerequisite: Carpentry II

This course expands on Carpentry I and II. Students may participate in constructing a new home through the Bringing Occupational Opportunities to Students (BOOTS) program. Construction management skills will also be stressed throughout the duration of the school year with the intent for students to enter the construction business upon completion. OSHA and class safety practices are mandatory and enforced.

Schools offering course: SHS

639000 INTRODUCTION TO CONSTRUCTION TRADES

Grades 9

1 Credit

This introductory course is for students interested in a construction career. Introduction to Construction Trades prepares them to build structures using materials like metal, wood, stone, and concrete. Students rotate through five construction trades, learning National Center for Construction Education & Research (NCCER) core safety components while exploring residential construction and design processes.

Schools offering course: SHS

639810 COSMETOLOGY I

Grades 11

3 Credits

NOTE: (Grade 10, if space available)

Prerequisite: Regular attendance is a requirement to meet clinical hours mandated by the Virginia Department of Professional and Occupational Regulation (DPOR).

In Cosmetology I students begin to develop their skills and technical knowledge relating to all textures of hair as they practice in a clinical lab setting for services such as hair shaping, finger waving, manicuring, and pedicuring. Additional areas of study include physiology, ethics, and professional image, along with proper disinfection procedures. Regular attendance is essential to be successful and continue in this program (a student must have earned a minimum of 325 hours in Cosmetology I to be eligible to move on to Cosmetology II).

Schools offering course: MVHS, SHS

639820 COSMETOLOGY II

Grades 12

3 Credits NOTE: (Grade 11, if available and the student meets the prerequisite)

Prerequisite: A passing score of 70% and a minimum of 325 hours earned in Cosmetology I is a requirement to meet clinical hours mandated by the Virginia Department of Professional and Occupational Regulation (DPOR).

In Cosmetology II, students continue to develop their skills and technical knowledge as it relates to all textures of hair in services such as hair coloring, hair cutting, and hair styling, and skin care, hair removal, and various salon management procedures. Upon successful completion of the 365 competencies and 840 hours required by the Commonwealth, students will be prepared to take the Virginia Board of Cosmetology licensing exam.

Schools offering course: MVHS, SHS

635110 CRIMINAL JUSTICE I

Grades 11

1 Credit

Students learn the principles, techniques, and practices for pursuing careers within the criminal justice services system. Also provided in this course is an overview of the conflicts, coordination, and interdependency of the major components of the criminal justice system.

Schools offering course: MVHS

635120 CRIMINAL JUSTICE II

Grades 12

2 Credits

Prerequisite: Criminal Justice I

Students will expand upon the course content developed in Criminal Justice I. In addition, this course introduces students to a career in law enforcement. Topics may include crime scene investigation, use of force continuum, criminal law court system and procedures, police concepts and skills, corrections concepts and skills, communication, security, and understanding and working with special populations.

Schools offering course: BPHS, MVHS, NSHS

639610 DRAFTING: FUNDAMENTALS

Grades 9-11

1 Credit

This course is recommended for students who are interested in technical fields such as architecture, engineering, construction. The course emphasizes fundamental mechanical drawing concepts and techniques. The projection, visualization, and interpretation of two-dimensional and three-dimensional objects are explored. The student is also introduced to computer-aided drafting (CAD) using Autodesk drafting software.

Schools offering course: SHS

639620 DRAFTING: MECHANICAL

Grades 10-12

2 Credits

Prerequisite: Drafting Fundamentals

This course focuses on creating mechanical drawings for manufacturing purposes. New skills learned include developing auxiliary views, reading tolerances, applying and interpreting weld symbols, specifying fasteners, additive manufacturing (3D printing) and the logic of mechanical assembly. Using 2D and 3D computer-aided design (CAD) software is integral to this course. Portfolio projects will be interspersed throughout the course, culminating in a design project of the student's own design solutions. All students may take the ADDA International Drafter Certification Exam as part of this program.

Schools offering course: SHS

639630 DRAFTING: ARCHITECTURAL**Grades 11-12****2 Credits*****Prerequisite: Drafting Fundamentals***

This course focuses on creating code compliant architectural drawings focusing on residential design. The student learns to prepare site plans, floor and foundation plans, electrical plans, elevations, wall sections and structural details. Both manual and CAD techniques are taught and utilized, with the focus on CAD using Autodesk design software. Portfolio projects will be interspersed throughout the course, culminating with the student's own residential house design. All students may take the ADDA International Architectural Drafter Certification Exam as part of this program.

Schools offering course: SHS**639640 DRAFTING: ADVANCED****Grades 11-12****2 Credits*****Prerequisite: Drafting Fundamentals AND Drafting Mechanical or Drafting Architectural***

Building on competencies taught in Drafting, students master the theory and manipulative skills necessary to produce complete and accurate drawings based on the ideas and sketches of engineers, architects, and designers. Students focus on performing architectural drafting as well as mechanical drafting and design operations, using manual drafting, computer-aided design and drafting (CADD), and additive manufacturing (3D printing) techniques. ***Schools offering course: SHS***

639310 ELECTRICITY I**Grades 10-11****1 Credit*****Recommended Prerequisite: Introduction to Construction Trades***

Students develop the skills and technical knowledge relating to test equipment, electrical circuits, single phase alternating current, residential wiring, estimating cost of labor and material, low voltage systems, wiring single family dwellings, and the use of the National Electrical Code. Students learn basic electrical terms. Students are provided the opportunity to work on the construction of a new home through the BOOTS program (Bringing Occupational Opportunities to Students). Students must successfully complete the 10-hour OSHA Safety Course and comply with OSHA standards throughout the course to be eligible for Electricity II.

Schools offering course: SHS**639320 ELECTRICITY II****Grades 11-12****2 Credits*****Prerequisite: Electricity I***

Students develop the skills and technical knowledge of commercial wiring, installation of and maintaining conduit systems, appliance and motor service, industrial wiring, control wiring, transformers, three-phase circuitry, and low voltage control systems. Students are provided the opportunity to work on the construction of a new home through the Bringing Occupational Opportunities to Students (BOOTS) program. OSHA and class safety practices are mandatory and enforced.

Schools offering course: SHS**639330 ELECTRICITY III****Grades 12****2 Credits*****Prerequisite: Electricity II***

This course expands on Electricity I and II. Qualified students have the opportunity to work on the construction of a new home through the Bringing Occupational Opportunities to Students (BOOTS) program. OSHA and class safety practices are mandatory and enforced.

Schools offering course: SHS

635310 FIREFIGHTING I**Grades 11-12****2 Credits**

Prerequisite: Stafford Fire and Rescue and National Fire Protection Association (NFPA) requires students to be at least 16 years old by July 1 and pass the NFPA 1582 medical physical. Additional requirements include parent/guardian consent and CPR, HAZMAT operations, and Mayday Awareness certifications.

Stafford Schools offers a High School Firefighter program (HSFP) through a partnership with Stafford County Fire and Rescue. Firefighting is one of the most dangerous jobs in the world and, therefore, requires complete discipline and attention to achieving the academic and professional standards necessary to successfully fight live fires, address hazardous-materials incidents, and conduct search-and-rescue operations. This course challenges students academically, mentally, and physically and meets the standards of National Fire Protection Association (NFPA) 1001-2013 leading to Firefighting I certification. Students must enroll in FFI (Semester I) and FFII (Semester II) consecutively in the same year. Firefighting will be offered every other day. Counselors must verify students have a plan to meet required credits necessary for graduation before they are eligible to participate in the program. The program is application based and includes stringent requirements by Stafford Fire and Rescue and NFPA. The program is contingent on the availability of funding/staffing.

635320 FIREFIGHTING II**Grades 11-12****1 credit**

Note: See description above.

Prerequisite: Completion of Firefighting I and passing Certification Exam

639340 HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION I**Grades 10-11****1 Credit**

Recommended Prerequisite: Introduction to Construction Trades

Students are taught to professionally install, repair, and maintain the operating conditions of heating, ventilation, air-conditioning, and refrigeration (HVACR) systems. Students work with piping and tubing, study the principles of heat and electricity, install duct systems, and comply with U.S. Environmental Protection Agency (EPA) regulations.

Schools offering course: SHS

639350 HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION II**Grades 11-12****2 Credits**

Prerequisite: Heating, Ventilation, Air Conditioning and Refrigeration I

This course builds on the fundamentals of installation, troubleshooting, repair, and maintenance of the operating conditions of heating, ventilation, air-conditioning, and refrigeration (HVACR) systems. Students also explore emerging technologies, Environmental Protection Agency (EPA) regulations, energy conservation techniques, and systems with exempt and non-exempt refrigerants. Completion of this instructional program will prepare students for employment in a variety of HVACR occupations.

Schools offering course: SHS

639410 MASONRY I**Grades 10-11****1 Credit**

Recommended Prerequisite: Introduction to Construction Trades

Students develop skills and technical knowledge for laying block and brick, concrete construction, reading blueprints, completing straight wall and corner work, and estimating labor and materials. Students are provided the opportunity to work on the construction of a new home through the BOOTS program (Bringing Occupational Opportunities to Students). Students must successfully complete the 10-hour OSHA Safety Course and comply with OSHA standards throughout the course to be eligible for Masonry II.

Schools offering course: SHS

639420 MASONRY II**Grades 11-12****2 Credits*****Prerequisite: Masonry I***

A continuation of Masonry I, students are given additional instruction in the knowledge and skills of mixing and pouring concrete, building arches and columns, stone masonry and required competencies for masonry workers. Students are provided the opportunity to work on the construction of a new home through the Bringing Occupational Opportunities to Students (BOOTS) program. OSHA and class safety practices are mandatory and enforced.

Schools offering course: SHS**639430 MASONRY III****Grades 12****2 Credits*****Prerequisite: Masonry II***

This course expands on Masonry I and II. Students may participate in constructing a new home through the Bringing Occupational Opportunities to Students (BOOTS) program. Fundamentals of construction management will be emphasized, including planning, estimating and problem solving on an actual construction job site. OSHA and class safety practices are mandatory and enforced. Hilti certification will be offered in addition to a state-approved industry credential.

Schools offering course: SHS**639180 SMALL ENGINE TECHNOLOGY I****Grades 9-12****1 Credit**

Students will study the theory, repair and applications of small 4 stroke/cycle internal combustion engines. Students will operate a Small Engine Repair business, repairing customer's outdoor power equipment. Units will cover safety, engine theory, engine troubleshooting, engine repair, parts location/order, small business operation.

Schools offering course: SHS**639190 SMALL ENGINE TECHNOLOGY II****Grades 10-12****2 Credits*****Prerequisite: Small Engine Technology 1***

Students will expand on the study of small engine repair from Small Engine Repair I. Units of study will include two-stroke/cycle engine theory and repair, engine rebuild, engine modifications, hydraulics, chainsaw repair and maintenance, string trimmer repair and maintenance, go-kart and mini-bike repair, outdoor power equipment business operation.

Schools offering course: SHS**639710 TELEVISION AND MEDIA PRODUCTION I****Grades 9-12****1 Credit****Note: Course requires time outside the scheduled class period for activities occurring in the evening and on weekends.**

This course combines public speaking and other communication skills with the study of video technology primarily used in broadcast journalism. Students receive training in written and verbal communication as it applies to broadcast journalism and instruction in the use and maintenance of electronic equipment used in broadcast television. Students will produce a variety of programming, live television interviews, broadcast television packages, and a variety of live coverage videography.

639720 TELEVISION AND MEDIA PRODUCTION II

Grades 10-12

2 Credits

Note: Course requires time outside the scheduled class period for activities occurring in the evening and on weekends.

Prerequisite: Television and Media Production I

This course is designed for the student interested in pursuing a career in broadcast technology or broadcast journalism. Experiences will be structured to simulate a private local company in the community, allowing the students to take on the responsibility of the day-to-day tasks. This simulation could include coverage of school and community events, developing a clientele through the creation of promotional and informational presentations, and daily production of live announcements for the school.

639730 TELEVISION AND MEDIA PRODUCTION III

Grades 11-12

2 Credits (280 Hours)

Note: Course requires time outside the scheduled class period for activities occurring in the evening and on weekends.

Prerequisite: Television and Media Production II

Students will demonstrate mastery of media production knowledge and skills. They will function as media producers by creating original productions as they develop and market programs for target audiences. They will examine dynamic media production.

Index of High School Courses

SCHOOL B = Brooke Point C = Colonial Forge H = Hartwood M = Mt. View N = North Stafford S = Stafford High					
SCHOOL	COURSE #	COURSE	CREDIT	GRADE	PREREQUISITE
ENGLISH					
GENERAL COURSES					
ALL	134100	English 9	1.0	9	
Center	1341003	Center English 9	1.0	9	
Center	13410023	Center Honors English 9	1.0	9	
ALL	1341002	Honors English 9	1.0	9	
ALL	135100	English 10	1.0	10	
Center	1351003	Center English 10	1.0	10	
Center	13510023	Center Honors English 10	1.0	10	
ALL	1351002	Honors English 10	1.0	10	
ALL	136100	English 11	1.0	11	
Center	1361003	Center English 11	1.0	11	
Center	13610023	Center Honors English 11	1.0	11	
ALL	1361002	Honors English 11	1.0	11	
ALL	137100	English 12	1.0	12	
Center	1371003	Center English 12	1.0	12	
Center	13710023	Center Honors English 12	1.0	12	
ADVANCED PLACEMENT COURSES					
ALL	1357104	AP English 10: Seminar	1.0	10	
ALL	1377104	AP English: Language and Composition	1.0	11	
ALL	1377204	AP English: Literature and Composition	1.0	12	
DUAL ENROLLMENT COURSES					
ALL	1361006	DE English Composition	1.0	11-12	
ALL	1377306	DE English World Literature	1.0	12	DE English Composition or a score of 3 on an AP English exam
ALL	1382206	DE Principles of Public Speaking	1.0	11-12	
COMMONWEALTH GOVERNOR'S SCHOOL COURSES					
ALL	13410027	English 9: Honors English 9	1.0	9	
ALL	13510027	English 10: Honors English 10	1.0	10	
ALL	13771047	English 11: AP English Language and Composition	1.0	11	
ALL	13771047	English 12: AP English Literature and Composition	1.0	12	

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SCHOOL	COURSE #	COURSE	CREDIT	GRADE	PREREQUISITE
INTERNATIONAL BACCALAUREATE COURSES					
B-M	1361005 1372005	IB Language and Literature (HL)	1.0 per year	11-12	English 10 or Honors English 10 courses for IB year one IB year one for IB year two
ELECTIVE ENGLISH COURSES					
ALL	138220	Oral Communication	1.0	10-12	
B, C, M	138210	Communication for Leadership	1.0	9-11	
ALL	138310	Journalism I	1.0	9-12	
ALL	138320	Journalism II	1.0	10-12	Journalism I and service on the school's publication staff
ALL	138330	Journalism III	1.0	11-12	Journalism II and service on the school's publication staff
ALL	138340	Journalism IV	1.0	12	Journalism III and service on the school's publication staff
ALL	138410	Photojournalism I	1.0	9-12	
ALL	138420	Photojournalism II	1.0	10-12	Photojournalism I and service on the school's publication staff
ALL	138430	Photojournalism III	1.0	11-12	Photojournalism II and service on the school's publication staff
ALL	138440	Photojournalism IV	1.0	12	Photojournalism III and service on the school's publication staff
ALL	138120	Creative Writing I	1.0	9-12	
ALL	138130	Creative Writing II	1.0	10-12	Creative Writing I and service on the school's publication staff
ALL	13	Creative Writing III			
ALL	139110-11391 40	Reading Across the Content Areas I-IV	1.0	9-12	Selection for this course is based on a set of criteria to include passing the 8th grade SOL, and NWEA MAP results.
ALL	139210-1392 40	Developmental Reading	1.0	9-12	Selection based on the IEP team's recommendation.
ALL	136000	English Review	1.0	11-12	Selection based on teacher recommendation and state assessment results.
HISTORY AND SOCIAL SCIENCES					
GENERAL COURSES					
ALL	431000	World History and Geography I	1.0	9	
Center	4310003	Center World History and Geography I	1.0	9	
Center	43100023	Center Honors World History and Geography I	1.0	9	
ALL	4310002	Honors World History and Geography I	1.0	9	
ALL	432000	World History and Geography II	1.0	10	
Center	4320003	Center World History and Geography II	1.0	10	

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SCHOOL	COURSE #	COURSE	CREDIT	GRADE	PREREQUISITE
Center	4320023	Center Honors World History and Geography II	1.0	10	
ALL	4320002	Honors World History and Geography II	1.0	10	
ALL	433100	Virginia and U.S. History	1.0	11	
Center	4331003	Center Virginia and U.S. History	1.0	11	
ALL	433200	Virginia and U.S. Government	1.0	12	
Center	4332003	Center Virginia and U.S. Government	1.0	12	
ADVANCED PLACEMENT COURSES					
ALL	4321004	AP Modern World History	1.0	10	
ALL	4333004	AP United States History	1.0	11-12	
ALL	4360004	AP Comparative Government and Politics	1.0	12	
ALL	4334004	AP United States Government/Politics	1.0	12	
ALL	4311004	AP Human Geography	1.0	9-12	
ALL	4380004	AP Psychology	1.0	11-12	
ALL	4392004	AP Economics	1.0	11-12	
ALL	4340004	AP European History	1.0	10-12	
DUAL ENROLLMENT COURSES					
ALL	4331006	DE United States History	1.0	11	
ALL	4332006	DE United States Government	1.0	12	
MVHS	4393006	DE Economic Essentials	1.0	11-12	
COMMONWEALTH GOVERNOR'S SCHOOL COURSES					
ALL	43400047	AP European History	1.0	9	
ALL	43340047	AP U.S. Government	1.0	10	
ALL	43330047	AP U.S. History	1.0	11-12	
ALL	43110047	AP Human Geography	1.0	12	
INTERNATIONAL BACCALAUREATE COURSES					
B-M	4392005	IB Economics (SL) with Personal Finance	1.0	11-12	
B-M	4311005 4312005	IB Theory of Knowledge	1.0 per year	11-12	IB year one for IB year two

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SCHOOL	COURSE #	COURSE	CREDIT	GRADE	PREREQUISITE
B-M	4313005 4314005	IB History (HL)	1.0 per year	11-12	World History or Honors World History and preferably AP US Government, IB year for IB year two
B-M	4371005	IB Social and Cultural Anthropology (SL)	1.0	11-12	
B-M	4380005	IB Psychology (SL)	1.0	11-12	
B-M	6332205	IB Business Management (SL)	1.0	11-12	
HISTORY AND SOCIAL SCIENCES ELECTIVE COURSES					
ALL	435000	African American History	1.0	10-12	
ALL	432800	Global Issues	1.0	11-12	
ALL	437000	Sociology	1.0	10-12	
ALL	438000	Psychology	1.0	10-12	
M	433500	Policy, Advocacy, and Ethics	1.0	10	
M	428100	Leadership and Community Engagement	1.0	11	
MATHEMATICS					
GENERAL COURSES					
ALL	231110	Algebra I	1.0	9-10	
ALL	231000	Algebra Readiness	1.0	9	
ALL	232100	Geometry	1.0	9-12	Algebra I
ALL	2321002	Honors Geometry	1.0	9-10	Algebra I
ALL	231120	Algebra, Functions, and Data Analysis	1.0	10-12	Algebra I
ALL	231210	Algebra II	1.0	9-12	Geometry or Algebra, Functions, and Data Analysis
Center	23123029	Engineering Honors Algebra II	1.0	9-12	Geometry
ALL	2312102	Honors Algebra II	1.0	9-10	Geometry
ALL	235500	Data Science	1.0	10-12	Algebra II
ALL	231610	Algebra III with Trigonometry	1.0	11-12	Algebra II
ALL	233120	Pre-calculus: Math Analysis with Trigonometry	1.0	10-12	Algebra II
ALL	234110	Statistics/Probability with Discrete Topics	1.0	11-12	Algebra II
ALL	233210	Calculus	1.0	11-12	Algebra III w/Trigonometry or Pre-calculus: Math Analysis with Trigonometry
ADVANCED PLACEMENT COURSES					

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SCHOOL	COURSE #	COURSE	CREDIT	GRADE	PREREQUISITE
ALL	2341204	AP Statistics	1.0	11-12	Algebra II
ALL	2331204	AP Pre-Calculus with Trigonometry	1.0	10-12	Algebra II
ALL	2332204	AP Calculus AB	1.0	11-12	Pre-calculus: Math Analysis with Trigonometry
ALL	2332304	AP Calculus BC	1.0	11-12	Pre-calculus: Math Analysis with Trigonometry
ALL	2361004	AP Computer Science Applications	1.0	10-12	Algebra II
DUAL ENROLLMENT COURSES					
ALL	2371006	DE Quantitative and (MTH 154)	1.0	11-12	Algebra II with a C or higher
ALL	2374006	DE Statistics (MTH 245)	1.0	11-12	Completion of MTH 154 with a C or higher and a current cumulative high school GPA of 3.0 or better
ALL	2331205	DE Pre-Calculus (MTH 161 and 162)	1.0	11-12	Algebra II with a C or higher. Overall GPA 3.0 or higher
ALL	2332306	DE Calculus I and II (MTH 263 and 264)	1.0	11-12	DE Pre-calculus with a C or higher or Pre-calculus: Math Analysis with Trigonometry with a C or higher. Overall GPA 3.0 or higher
ALL	2372006	DE Linear Algebra (MTH 266)	1.0	11-12	DE Calculus II MTH 266 with a C or higher. Overall GPA 3.0 or higher
ALL	2373006	DE Differential Equations (MTH 267)	1.0	11-12	DE Calculus IIMTH 264 with a C or higher. Overall GPA 3.0 or higher
COMMONWEALTH GOVERNOR'S SCHOOL COURSES					
C-N-S	23123027	Mathematics 9: Honors Algebra II	1.0	9	
C-N-S	2322002	Mathematics 10: Honors Geometry with Trigonometry	1.0	10	
C-N-S	23312057	DE Pre-Calculus	1.0	10-12	
C-N-S	23312027	Math Analysis w/Discrete Topics Honors	1.0	10-12	
C-N-S	23312047	AP Pre-Calculus Math Analysis with Trigonometry	1.0	10-12	
C-N-S	23322047	AP Calculus AB w/Special Topics	1.0	11	
C-N-S	23323047	AP Calculus BC and Multivariable Calculus	1.0	12	
C-N-S	23412047	AP Statistics	1.0	12	
INTERNATIONAL BACCALAUREATE COURSES					
B-M	2351105 2351205	IB Mathematics: Applications and Interpretation (SL)	1.0	11-12	Algebra II for IB year one IB year one for IB year two
B-M	2352105 2352205	IB Mathematics: Analysis and Approaches (SL)	1.0	11-12	Pre-calculus: Math Analysis with Trigonometry for IB year one IB year one for IB year two

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SCHOOL	COURSE #	COURSE	CREDIT	GRADE	PREREQUISITE
B-M	2353105 2353205	IB Mathematics: Applications and Interpretation (HL)	1.0	11-12	Pre-calculus: Math Analysis with Trigonometry IB year one for IB year two
B-M	2354105 2354205	IB Mathematics: Analysis and Approaches (HL)	1.0	11-12	Pre-calculus: Math Analysis with Trigonometry IB year one for IB year two
SCIENCE					
GENERAL COURSES					
ALL	331000	Earth Science	1.0	9-12	Students may be concurrently enrolled in Biology
ALL	3310002	Honors Earth Science	1.0	9-12	Students may be concurrently enrolled in Biology
ALL	331300	Environmental Science	1.0	9-11	Students may be concurrently enrolled in Biology and Earth Science
ALL	332100	Biology	1.0	9-10	Students may be concurrently enrolled in Earth Science
ALL	3321002	Honors Biology	1.0	9-10	Students may be concurrently enrolled in Earth Science
ALL	333100	Chemistry	1.0	10-12	Algebra II or concurrent enrollment
ALL	3331002	Honors Chemistry	1.0	10-12	Algebra II or concurrent enrollment
ALL	334100	Physics	1.0	11-12	Algebra II or concurrent enrollment
ALL	3341002	Honors Physics	1.0	11-12	Algebra II or concurrent enrollment
ADVANCED PLACEMENT COURSES					
ALL	332100/332100 L4	AP Biology/Lab	1.0/1.0.0	10-12	Biology and Chemistry
ALL	3331004/33310 0L4	AP Chemistry/Lab	1.0/1.0	11-12	Algebra II and Chemistry
ALL	3341004	AP Physics 1	1.0	11-12	Geometry
ALL	3342004	AP Physics 2	1.0	12	Concurrent enrollment in Pre-calculus
ALL	3313004	AP Environmental Science	1.0	10-12	Two laboratory sciences and Algebra I
DUAL ENROLLMENT COURSES					
ALL	3313006	DE Environmental Science (ENV 121)	1.0	11-12	
ALL	3321006	DE Biology (BIO 101)	1.0	11-12	Biology
ALL	3331006	DE Chemistry (CHM 111)	1.0	11-12	
ALL	3341006	DE Physics (PHY 201)	1.0	10-12	Geometry
COMMONWEALTH GOVERNOR'S SCHOOL COURSES					
C-N-S	33130047	AP Environmental Science	1.0	9	
C-N-S	33210047	AP Biology	1.0	10	
C-N-S	33310067	DE Chemistry	1.0	11	
C-N-S	33410047	AP Physics 1	1.0	12	

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SCHOOL	COURSE #	COURSE	CREDIT	GRADE	PREREQUISITE
INTERNATIONAL BACCALAUREATE COURSES					
B-M	3321705 3321805	IB Biology (HL)	1.0 per course	11-12	Biology or Honors Biology and Chemistry for IB year one IB year one for IB year two
B	3321505	IB Biology 11 (SL)	1.0	11	Biology or Honors Biology and Chemistry or concurrent enrollment for IB year one
B	3321605	IB Biology 12 (SL)	1.0	12	IB Biology 11 (SL)
M	3331705 3331805	IB Chemistry (HL)	1.0 per course	11-12	Chemistry or Honors Chemistry and Biology for IB year one IB year one for IB year two
B-M	3341505 3342505	IB Physics (SL)	1.0 per course	11-12	Algebra II for IB year one IB year one for IB year two
B-M	3313005	IB Environmental Systems and Societies (SL)	1.0	11-12	Biology or Chemistry or Honors Biology or Honors Chemistry
M	3313105 3313205	IB Environmental Systems and Societies (HL)	1.0	11-12	Biology or Chemistry or Honors Biology or Honors Chemistry for year one IB year one for IB year two
SCIENCE ELECTIVE COURSES					
ALL	332300	Biology II: Ecology	1.0	11-12	Biology or Environmental Science
ALL	332200	Biology II: Anatomy and Physiology	1.0	11-12	Biology Recommended Prerequisite: Concurrent enrollment in Chemistry
ALL	331100	Earth Science II: Geology	1.0	10-12	Earth Science or Environmental Science
ALL	331200	Earth Science II: Oceanography	1.0	11-12	Earth Science or Environmental Science
N	331001	Geosystems	1.0	9	
WORLD LANGUAGE					
GENERAL COURSES					
ALL	834100	American Sign Language Level I	1.0	10-12	
ALL	834200	American Sign Language Level II	1.0	10-12	American Sign Language Level I
ALL	834300	American Sign Language Level III	1.0	11-12	American Sign Language Level II
ALL	835100	French Level I	1.0	8-12	
ALL	835200	French Level II	1.0	9-12	French Level I
ALL	835300	French Level III	1.0	10-12	French Level II
ALL	835400	French Level IV	1.0	11-12	French Level III
ALL	836100	German Level I	1.0	8-12	
ALL	836200	German Level II	1.0	9-12	German Level I
ALL	836300	German Level III	1.0	10-12	German Level II

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SCHOOL	COURSE #	COURSE	CREDIT	GRADE	PREREQUISITE
ALL	836400	German Level IV	1.0	11-12	German Level III
ALL	837100	Latin Level I	1.0	8-12	
ALL	837200	Latin Level II	1.0	9-12	Latin Level I
ALL	837300	Latin Level III	1.0	10-12	Latin Level II
ALL	837400	Latin Level IV	1.0	11-12	Latin Level III
ALL	838100	Spanish Level I	1.0	8-12	
ALL	838200	Spanish Level II	1.0	9-12	Spanish Level I
ALL	838300	Spanish Level III	1.0	10-12	Spanish Level II
ALL	838400	Spanish Level IV	1.0	11-12	Spanish Level III
ALL	838120	Spanish for Fluent Speakers Level I	1.0	8-12	Students will take an assessment to ensure proper placement according to prior knowledge and study of Spanish
ALL	838220	Spanish for Fluent Speakers Level II	1.0	9-12	Students will take an assessment to ensure proper placement according to prior knowledge and study of Spanish
ALL	838320	Spanish for Fluent Speakers Level III	1.0	10-12	Students will take an assessment to ensure proper placement according to prior knowledge and study of Spanish
ADVANCED PLACEMENT COURSES					
C-N-S	8356004	AP French	1.0	11-12	French Level IV
C-N-S	8365004	AP German	1.0	11-12	German Level IV
C-N-S	8376004	AP Latin (Virgil)	1.0	11-12	Latin Level IV
C-N-S	8387004	AP Spanish	1.0	11-12	Spanish Level IV or Spanish for Fluent Speakers III
DUAL ENROLLMENT COURSES					
ALL	8354006	DE Intermediate French IV (FRE 201 and 202)	1.0	11-12	French III
ALL	8364006	DE Intermediate German IV (GER 201 and 202)	1.0	11-12	German III
ALL	8384006	DE Intermediate Spanish IV (SPA 201 and 202)	1.0	11-12	Spanish III or Spanish for Fluent Speakers III
INTERNATIONAL BACCALAUREATE COURSES					
B-M	8384005	IB Spanish B IV	1.0	10 or 11	Spanish III or SFS III
B-M	8354005	IB French B IV	1.0	10 or 11	French III
B-M	8364005	IB German B IV	1.0	10 or 11	German III
B-M	8385105	IB Spanish B V (SL)	1.0	11 or 12	IB Spanish B course
B-M	8355105	IB French B V (SL)	1.0	11 or 12	IB French B course

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SCHOOL	COURSE #	COURSE	CREDIT	GRADE	PREREQUISITE
B-M	8365105	IB German B V (SL)	1.0	11 or 12	IB German B course
B-M	8385215	IB Spanish B V (HL)	1.0	12	IB Spanish B IV course
B-M	8356205	IB French B V (HL)	1.0	12	IB French B IV course
B-M	8366205	IB German B V (HL)	1.0	12	IB German B IV course
B-M	8374105 8374205	IB Latin (SL)	1.0	11-12	Latin III for IB year one IB year one for IB year two
M	8385305 8385405	IB Spanish Ab Initio (SL)	1.0	10-12	
VISUAL AND PERFORMING ARTS					
GENERAL COURSES FOR ART					
ALL	533100	Art I	1.0	9-12	
ALL	533200	Art II	1.0	10-12	Art I
N-S	5332002	Honors Art II	1.0	10-12	Art I, teacher recommendation; identified or eligible for identification as gifted in visual arts or portfolio review by high school staff
ALL	533300	Art III	1.0	11-12	Art II
ALL	533400	Art IV	1.0	11-12	Art III
ALL	5335000	Sculpture and Ceramics	1.0	10-12	Art I
ALL	533000	Art History (Non-Studio Elective)	1.0	10-12	
B-S	533610	Photography and Graphic Design I	1.0	9-12	
B-S	533620	Photography and Graphic Design II	1.0	10-12	Photography and Graphic Design I
S	533630	Photography and Graphic Design III	1.0	10-12	Photography and Graphic Design II
H	533020	Arts, Culture, and Society	1.0	9	
GENERAL COURSES FOR BAND					
ALL	531100	Concert Band	1.0	9-12	Previous band experience at the middle school level required
ALL	531300	Symphonic Band	1.0	9-12	One or more years of previous band experience; by audition
ALL	531800	Wind Ensemble	1.0	9-12	By audition only
ALL	531900	Percussion Ensemble	1.0	9-12	Previous band experience is required
ALL	531600	Jazz Ensemble	1.0	10-12	One or more years of high school band experience; by audition
ALL	531610	Jazz Workshop	1.0	9-12	One or more years of high school band experience; by audition
GENERAL COURSES FOR CHORUS					
ALL	532700	Vocal Ensemble	1.0	9-12	
ALL	532600	Treble Chorus	1.0	9-12	

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SCHOOL	COURSE #	COURSE	CREDIT	GRADE	PREREQUISITE
ALL	532300	Chorale	1.0	9-12	Auditions may be required
ALL	532500	Madrigals	1.0	10-12	By audition only
ALL	532400	Jazz Choir	1.0	9-12	Auditions may be required
ALL	532100	Chamber Choir	1.0	10-12	By audition only
GENERAL COURSES FOR ORCHESTRA					
ALL	531200	Concert Orchestra	1.0	9-12	Previous orchestra experience at the middle school level required
ALL	531300	Symphonic Orchestra	1.0	9-12	One or more years of previous orchestra experience; by audition
ALL	531700	Chamber Sinfonia	1.0	10-12	By audition only
GENERAL COURSES FOR MUSIC					
ALL	530130	Music Theory	1.0	10-12	Previous music training required. Students should have a fundamental understanding of music notation.
ALL	530210	Guitar I	1.0	9-12	
ALL	530220	Guitar II	1.0	10-12	Guitar I or teacher recommendation
B-C-H-M-N	531500	Guitar Ensemble	1.0	11-12	Guitar II or teacher recommendation
S	530110	Music Technology I	1.0	9-12	
S	530120	Music Technology II	1.0	10-12	Music Technology I or teacher recommendation
ADVANCED PLACEMENT COURSES FOR MUSIC					
ALL	5311304	AP Music Theory	1.0	11-12	Music Theory or teacher recommendation
GENERAL COURSES FOR THEATRE ARTS					
ALL	534110	Theatre Arts I	1.0	9-12	
ALL	534120	Theatre Arts II	1.0	10-12	Theatre Arts I
ALL	534130	Theatre Arts III	1.0	11-12	Theatre Arts II
ALL	534140	Theatre Arts IV	1.0	11-12	Theatre Arts III
ALL	534210	Technical Theatre I	1.0	9-12	
ALL	534220	Technical Theatre II	1.0	10-12	Technical Theatre I
ALL	534230	Technical Theatre III	1.0	10-12	Technical Theatre II
ADVANCED PLACEMENT COURSES FOR ART					
ALL	5335304	AP Studio Art (Drawing Portfolio)	1.0	11-12	Art III
ALL	5335104	AP Studio Art (2-D Design Portfolio)	1.0	11-12	Art III
ALL	5335204	AP Studio Art (3-D Design Portfolio)	1.0	11-12	Art III

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SCHOOL	COURSE #	COURSE	CREDIT	GRADE	PREREQUISITE
ALL	5330104	AP Art History (Non-Studio Elective)	1.0	11-12	Art History or teacher recommendation
DUAL ENROLLMENT COURSES FOR ART					
ALL	5330006	DE Art History (ART 101 and 102)	1.0	11-12	
INTERNATIONAL BACCALAUREATE COURSES FOR VISUAL AND PERFORMING ARTS					
B-M	5331005 5332005	IB Visual Arts (SL)	1.0 per course	11-12	Art II for year one IB year one for IB year two
B-M	5333005 5334005	IB Visual Arts (HL)	1.0 per course	11-12	Art II for IB year one IB year one for IB year two
B-M	5343105 5343305	IB Theatre Arts (SL)	1.0 per course	11-12	Theatre Arts II or Technical Theatre II for IB year one IB year one for IB year two
B-M	5343205 5343405	IB Theatre Arts (HL)	1.0 per course	11-12	Theatre Arts II or Technical Theatre II for IB year one IB year one for IB year two
B-M	5303105	IB Music (SL)	1.0	11-12	Prerequisite: Music Theory IB Music students must be concurrently enrolled in a performance class.
HEALTH AND PHYSICAL EDUCATION AND DRIVER EDUCATION					
ALL	831000	Health and Physical Education 9	1.0	9	
ALL	832000/ 832000L	Health and Physical Education 10	1.0	10	
ALL	833310	Strength and Body I	1.0	11-12	
ALL	833320	Strength and Body II	1.0	12	
ALL	833120	Competitive Team Sports	1.0	11-12	
ALL	833110	Competitive Individual Sports	1.0	11-12	
ALL	635710	Sports Medicine I	1.0	10-11	Biology
ALL	635720	Sports Medicine II	1.0	11-12	Sports Medicine I; completion of application and interview, be available five hours a week after school
ALL	833210	Sport and Fitness for Life I	1.0	11-12	
ALL	833220	Sport and Fitness for Life II	1.0	12	Sport and Fitness for Life I
ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESOL)					
ALL	331310	ESOL Environmental Science	1.0	9-10	
ALL	938110	ESOL English for Academic Purposes I	1.0	9-12	
ALL	938120	ESOL English for Academic Purposes II	1.0	9-12	
ALL	938310	ESOL Algebra Readiness	1.0	9-12	
ALL	938210	Foundations of Literacy	1.0	9-12	
ALL	938320	Foundations of Mathematics	1.0	9-12	

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SCHOOL	COURSE #	COURSE	CREDIT	GRADE	PREREQUISITE
ALL	938410	English Language Development Concepts I	1.0	9-12	
ALL	938420	English Language Development Concepts II	1.0	9-12	
ALL	938000	ESOL Newcomer	1.0	9-12	
ALL	938500	ESOL Peer Tutoring	1.0	9-12	
ADDITIONAL CREDIT OPPORTUNITIES					
ALL	030400	Freshman Success	1.0	9	Placement based on recommendation
ALL	030500	Peer Tutoring	1.0	10-12	
ALL	6385004	AP Computer Science Principles	1.0	9-12	
M	6385105	IB Computer Science (SL)	1.0	11-12	
C-N-S	1385104	AP Capstone – AP Seminar	1.0	10-12	
C-N-S	1385204	AP Capstone – AP Research	1.0	11-12	
ALL	630300	All Century Independent Learners	1.0	9-12	
ALL	030100	Gifted and Accelerated Programs (GSP) Independent Study	1.0	11-12	
C-N-S	138150	CGS Advanced Research and Writing	1.0	12	
ALL	630100	Learn and Serve I	1.0	10-12	
ALL	630200	Learn and Serve II	1.0	10-12	
ALL	630000	Leadership	1.0	9-12	
CAREER AND TECHNICAL EDUCATION					
ALL	6304106	DE Virginia Teachers for Tomorrow I	1.0	11	
ALL	6304206	DE Virginia Teachers for Tomorrow II	1.0	12	Virginia Teachers for Tomorrow I
ALL	639001	Career Strategies	1.0	9-12	
JUNIOR RESERVE OFFICERS' TRAINING CORPS (JROTC)					
N	631110F	Air Force Military Science I	1.0	9-12	
N	631120F	Air Force Military Science II	1.0	10-12	Air Force Military Science Level I
N	631130F	Air Force Military Science III	1.0	10-12	Air Force Military Science Level II
N	631140F	Air Force Military Science IV	1.0	10-12	Air Force Military Science Level III
C	631210A	Army Military Science I	1.0	9-12	

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C	631220A	Army Military Science II	1.0	10-12	Army Military Science I
C	631230A	Army Military Science III	1.0	11-12	Army Military Science II
C	631240A	Army Military Science IV	1.0	12	Army Military Science III
H-M	631310M	Marine Corps Military Science I	1.0	9-11	
H-M	631320M	Marine Corps Military Science II	1.0	10-12	Marine Corps Military Science I
H-M	631330M	Marine Corps Military Science III	1.0	11-12	Marine Corps Military Science II
H-M	631330M	Marine Corps Military Science IV	1.0	12	Marine Corps Military Science III
B-S	631410N	Navy Military Science I	1.0	9-11	
B-S	631420N	Navy Military Science II	1.0	10-12	Navy Military Science I
B-S	631420N	Navy Military Science III	1.0	11-12	Navy Military Science II
B-S	631430N	Navy Military Science IV	1.0	12	Navy Military Science III
AGRICULTURE AND NATURAL RESOURCES					
N	632710	Horticulture Sciences	1.0	9-12	
N	632720	Greenhouse Plant Production and Management	1.0	10-12	Horticulture Sciences
N	632730	Landscaping I	1.0	11-12	Horticulture Sciences
N	632740	Landscaping II	1.0	11-12	Landscaping I
BUSINESS AND INFORMATION TECHNOLOGY					
ALL	633110	Accounting I	1.0	10-12	Recommended Prerequisite: Digital Applications
ALL	633120	Accounting II	1.0	11-12	Accounting I
ALL	633210	Business Law	1.0	11-12	
ALL	633220	Business Management	1.0	10-12	
B-C	6332206	DE Business Management	1.0	10-12	
ALL	633320	Computer Information Systems I	1.0	9-12	Recommended Prerequisite: Digital Applications
ALL	633330	Computer Information Systems II	1.0	10-12	Computer Information Systems I
ALL	633410	Cybersecurity I	1.0	10-12	Information Technology Fundamentals
ALL	633420	Cybersecurity II	1.0	11-12	Cybersecurity I
C	633430	Cybersecurity III	1.0	11-12	Cybersecurity II
B-C	633500	Database Design and Management	1.0	10-11	Information Technology Fundamentals
ALL	633510	Design, Multimedia, and Web Technologies I	1.0	10-12	Recommended Prerequisite: Digital Applications or Computer Information Systems I
ALL	633520	Design, Multimedia, and Web Technologies II	1.0	10-12	Design, Multimedia, and Web Technologies I

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ALL	633530	Digital Applications	1.0	9-12	
ALL	633000	Economics and Personal Finance	1.0	10-12	This course is a graduation requirement for students who enter high school in 2011 and all subsequent years.
ALL	633310	Information Technology Fundamentals	1.0	9-11	
B	6336108	Java Programming	1.0	12	Database Design and Management
ALL	634000	Principles of Business and Marketing	1.0	9-10	
ALL	633611	Programming I	1.0	10-12	Information Technology Fundamentals
C	6336116	DE Programming I	1.0	10-12	Information Technology Fundamentals
ALL	633612	Programming II	1.0	11-12	Programming I
C	6336126	DE Programming II	1.0	11-12	DE Programming I or Programming I
B	6336118	STAT Programming	1.0	10-12	Information Technology Fundamentals
MARKETING					
C	634100	Digital and Social Media Marketing	1.0	10-12	
ALL	634500	Employment for Education I	1.0	9-11	Application and Interview
ALL	634210	Fashion Marketing I	1.0	10-12	Interest in fashion career recommended
ALL	634220	Fashion Marketing II	1.0	11-12	Fashion Marketing I
ALL	634300	Marketing	1.0	10-12	
ALL	634310	Strategic Marketing	1.0	11-12	Marketing
ALL	634400	Sports and Entertainment Marketing	1.0	10-12	
ALL	634410	Sports and Entertainment Management	1.0	11-12	Sports and Entertainment Marketing
HEALTH AND MEDICAL SCIENCES					
C-S	635210	Emergency Medical Technician I	1.0	11-12	Recommended Prerequisite: Introduction to Health and Medical Sciences. Students must be 16 years of age by the first day of school in order to enroll in EMT I. EMT I must be successfully completed to enroll in EMT II
C-S	635220	Emergency Medical Technician II	1.0	11-12	See prerequisite above. Must be concurrently enrolled in EMT I and EMT II
C-M-S	635240	Emergency Medical Telecommunications	1.0	10-12	
B	635100	Health Informatics	1.0	10-12	Recommended Prerequisite: Introduction to Health and Medical Sciences
B-C-S	635000	Introduction to Health and Medical	1.0	9-12	

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SCHOOL	COURSE #	COURSE	CREDIT	GRADE	PREREQUISITE
		Sciences			
B	635410	Medical Assistant I	2.0	11	Recommended Prerequisite: Introduction to Health and Medical Sciences
B	635420	Medical Assistant II	2.0	12	Medical Assistant I
B	635810	Mental Health Assisting Careers	2.0	11	
B	635510	Nurse Aide	1.0	12	Recommended Prerequisite: Introduction to Health and Medical Sciences (including clinical experience)
FAMILY AND CONSUMER SCIENCES					
ALL	636000	Child Development and Parenting	1.0	10-12	
B-M-S	636110	Culinary Arts I	2.0	10-11	
B-M-S	636120	Culinary Arts II	2.0	11-12	Culinary Arts I
B-M-S	636130	Culinary Arts Specialization	1.0	12	Culinary Arts II and Students must successfully pass the Culinary Arts II end-of- the-year assessment
B-N	636210	Early Childhood, Education, and Services I	2.0	10-11	
B-N	636220	Early Childhood, Education, and Services II	2.0	11-12	Early Childhood Education I
ALL	636010	Family Relations	1.0	9-12	
ALL	636410	Introduction to Fashion Careers	1.0	9-12	
ALL	636420	Introduction to Interior Design	1.0	9-12	
ALL	636020	Life Planning	1.0	9-12	
B-C-M-N-S	636030	Nutrition and Wellness	1.0	9-12	
TECHNOLOGY AND ENGINEERING EDUCATION					
B-C-M-N	637110	Architectural Drawing and Design	1.0	10-12	Technical Drawing and Design
C	637000	Communication Systems	1.0	9-12	
C	637120	Animation and Digital ContentTechnology	1.0	10-12	Recommended Prerequisite: Technical Drawing and Design, Communication Systems or Imaging Technology
C-M-S	637200	Engineering Explorations	1.0	9-11	
S	637210	Engineering Analysis and Application	1.0	10-12	Engineering Explorations
S	637220	Engineering Concepts and Processes	1.0	10-12	Engineering Analysis and Application
B-C-M-N	637230	Engineering Drawing and Design	1.0	10-12	Technical Drawing and Design
N-S	637240	Engineering Practicum	1.0	12	Engineering Analysis and Application or Engineering Concepts and Processes or Engineering Studies
S	6372606	DE Foundations of Engineering and DE	1.0	12	

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		Engineering Design			
C-M	637250	Engineering Studies	1.0	10-12	Engineering Explorations
C	637300	Imaging Technology	1.0	9-12	Communication Systems
B-M	637310	Manufacturing Systems I	1.0	9-12	
B-M	637320	Advanced Manufacturing Systems II	1.0	10-12	Manufacturing Systems or Production Systems
M	637330	Production Systems	1.0	9-12	
B-C-M-N	637100	Technical Drawing and Design	1.0	9-12	
PROJECT LEAD THE WAY (PLTW)					
N	638100	Aerospace Engineering - PLTW	1.0	10	Introduction to Engineering Design
N	638430	Biomedical Innovation-PLTW	1.0	12	Medical Interventions Recommended Prerequisite: Physics/AP Physics
N	638200	Civil Engineering and Architecture – PLTW	1.0	11-12	Algebra II or concurrent enrollment and Digital Electronics or Aerospace Engineering
N	638210	Computer Integrated Manufacturing – PLTW	1.0	11-12	Algebra II or concurrent enrollment and Digital Electronics or Aerospace Engineering
N	638110	Digital Electronics - PLTW	1.0	10-12	Introduction to Engineering Design
N	638320	Engineering Capstone - PLTW	1.0	12	Civil Engineering and Architecture, Computer Integrated Manufacturing, or Principles of Engineering Note: This course requires concurrent enrollment in Engineering Practicum
B	638410	Human Body Systems-PLTW	1.0	10-12	Principles of Biomedical Sciences and Biology
N	638000	Introduction to Engineering Design – PLTW	1.0	9-11	Algebra I
B	638420	Medical Interventions-PLTW	1.0	11-12	Human Body Systems Recommended Prerequisite: AP Biology or Chemistry Honors
B	638400	Principles of Biomedical Sciences-PLTW	1.0	9-11	Biology or concurrent enrollment
N	638310	Principles of Engineering-PLTW	1.0	11-12	Algebra II or concurrent enrollment and Digital Electronics or Aerospace Engineering
TRADE AND INDUSTRIAL EDUCATION					
N	639110	Collision Repair Technology I	1.0	10-11	
N	639110	Collision Repair Technology II	2.0	11-12	Collision Repair Technology I
N	639130	Collision Repair Technology III	2.0	12	Collision Repair Technology II
B-N	639140	Automotive Technology I	1.0	10-11	
B-N	639150	Automotive Technology II	2.0	11-12	Automotive Technology I

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B-N	639160	Automotive Technology III	2.0	12	Automotive Technology II
M	639830	Master Barbering I	3.0	11	Regular attendance is required in order to meet the clinical lab hours.
M	639840	Master Barbering II	3.0	11-12	Passing score of 70% or above in Mastering Barbering I and regular attendance is required to meet clinical hours.
N	639240	Cabinetmaking I	1.0	9-11	
N	639250	Cabinetmaking II	2.0	10-12	Cabinetmaking I
B-S	639210	Carpentry I	1.0	10-11	Recommended Prerequisite: Introduction to Construction Trades
B-S	639220	Carpentry II	2.0	11-12	Carpentry I
S	639230	Carpentry III	2.0	12	Carpentry II
S	639000	Introduction to Construction Trades	1.0	9	
M-S	639810	Cosmetology I	3.0	10-11	Regular attendance is required in order to meet the clinical lab hours.
M-S	639820	Cosmetology II	3.0	11-12	Passing score of 70% or above in Cosmetology I and regular attendance is required to meet clinical hours.
M	635110	Criminal Justice I	1.0	11	
B-N-M	635120	Criminal Justice II	2.0	12	Criminal Justice I
S	639610	Drafting: Fundamentals	1.0	9-11	
S	639620	Drafting: Mechanical	2.0	10-12	Drafting: Fundamentals
S	639630	Drafting: Architectural	2.0	11-12	Drafting: Fundamentals:
S	639640	Drafting: Advanced	2.0	11-12	Drafting Fundamentals AND Drafting Mechanical or Drafting Architectural
S	639310	Electricity I	1.0	10-11	Recommended Prerequisite: Introduction to Construction Trades
S	639320	Electricity II	2.0	11-12	Electricity I
S	639330	Electricity III	2.0	12	Electricity II
All	635310	Firefighting I	2.0	11-12	Students must be at least 16 years old by the first day of the course offering. Enrollment also requires parental/guardian consent. Additional requirements, including CPR, HAZMAT operations, and Mayday Awareness, are stipulated for those students seeking NFPA Firefighter I certification.
All	635320	Firefighting II	1.0	11-12	Successful completion of Firefighting I and Certification Exam
S	639340	Heating, Ventilation, Air Conditioning and Refrigeration I	1.0	10-11	Recommended Prerequisite: Introduction to Construction Trades

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S	639350	Heating, Ventilation, Air Conditioning and Refrigeration II	2.0	11-12	Heating, Ventilation, Air Conditioning and Refrigeration I
S	639410	Masonry I	1.0	10-11	Recommended Prerequisite: Introduction to Construction Trades
S	639420	Masonry II	2.0	11-12	Masonry I
S	639430	Masonry III	2.0	12	Masonry II
S	639180	Small Engine Technology I	1.0	9-12	
S	639190	Small Engine Technology II	2.0	10-12	Small Engine Technology I
ALL	639710	Television and Media Production I	1.0	9-12	
ALL	639720	Television and Media Production II	2.0	10-12	Television and Media Production I
ALL	639730	Television and Media Production III	2.0	11-12	Television and Media Production II

Compliance with State Code and Regulations

Stafford Schools maintains compliance with all staffing and instructional time requirements as outlined in the *Code of Virginia*, Standards of Quality, and Standards of Accreditation.

NOTICE

The Stafford County School Board does not unlawfully discriminate against any person on the basis of race, color, national origin, political affiliation, religion, sex, pregnancy, childbirth or related medical conditions, marital status, mental or physical disability, age, genetic information, sexual orientation, gender identity, or any other characteristic prohibited by state and/or federal law. Inquiries regarding non-discrimination should be directed to the Title IX Coordinator/Human Resources, Stafford Schools, 31 Stafford Avenue, Stafford, VA 22554. Phone: (540) 658-6560 Fax: (540) 658- 5970. Reasonable accommodation upon request.