



High School Program of Studies

2024-2025

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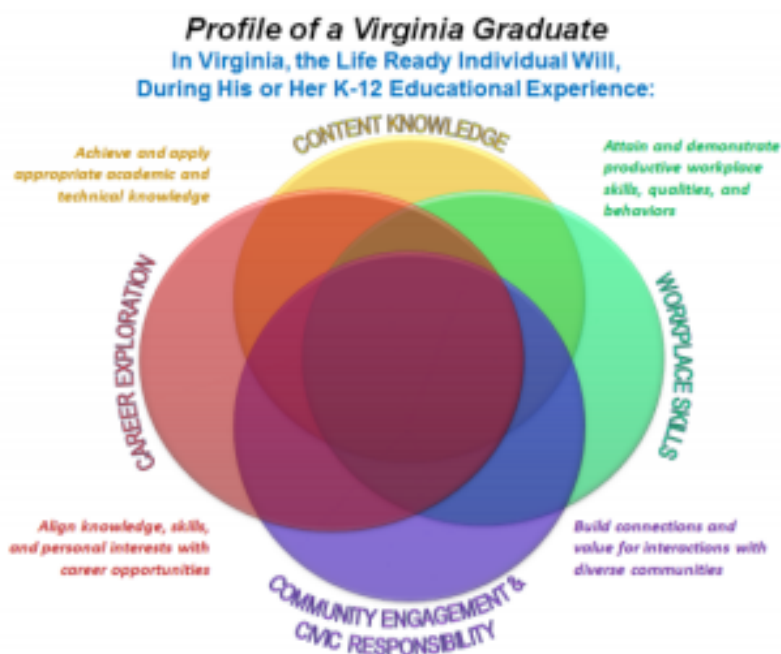
Introduction & Overview of High School Options

About this Guide

This guide is organized in sections as outlined in the table of contents on the previous pages. It outlines the content, knowledge and skills students will acquire by the time they graduate from high school, details the high school options and special programs within RPS, explains graduation requirements and diploma options, and then lists the courses that may be available to students in SY2024-2025. (Note that some courses will be available only at specific campuses). Additional information is found in the addenda at the end of the document.

Profile of a Virginia Graduate

The aim of graduating from high school is not simply to earn a diploma, but to be prepared for college and career. To that end, the state of Virginia has a defined vision for all graduates that describes the knowledge, skills, experiences, and attributes that students must attain to be successful in college and/or the workforce, and to be "life ready." A "life-ready" Virginia graduate must achieve and apply content knowledge, demonstrate productive workplace skills, qualities, and behaviors, engage as a responsible and responsive citizen, and use their learning to explore career opportunities. The learning experiences of RPS students are designed to align to this vision.



Overview of Academic Programs

General Academic Program Offerings

Every RPS high school offers a course of study that enables students to meet the graduation requirements for the Advanced Studies or Standard Diploma while also providing opportunities to explore coursework beyond those requirements. Our courses of study include access to robust career and technical offerings, as well as advanced courses that provide the opportunity for all students to earn credit towards a post-secondary degree or industry certification. All students are encouraged to take advantage of this diverse array of offerings as they explore their interests and prepare for their future.

As part of Virginia graduation requirements for the Advanced Studies and Standard Diploma, every student must additionally complete at least one of the following: complete an AP, honors, or IB course, or earn a career and technical education (CTE) credential approved by the RPS School Board. Students must also complete the College, Career and Civic Readiness Index requirement and earn 5 verified credits earned by passing SOL tests in English (2), Math (1), Science (1) and History (1). RPS offers students many options to fulfill this requirement through the opportunities outlined in this document.

Select students with unique learning needs may consider an Applied Studies Diploma. The Applied Studies Diploma is a diploma option available to students identified as having a disability who complete the requirements of their Individualized Education Plans (IEP) and meet certain requirements prescribed by the VA Board of Education pursuant to regulations, but do not meet the requirements for any named diploma. It is important to note that an Applied Studies Diploma is typically not recognized for admissions by post-secondary institutions, nor does it qualify for military service.

Career & Technical Education Pathways at the Richmond Technical Center

In addition to the CTE courses offered at each RPS comprehensive high school, all students may enroll in CTE courses that result in an industry credential and/or certification at the Richmond Technical Center (RTC) while still attending the majority of their courses at their home high school. RTC provides unique and meaningful hands-on learning opportunities that allow students to explore a passion while earning high school and/or college credit. The staff at RTC works in partnership with colleges, businesses, and industries to provide entry-level experience, job training, and industry certification in preparation for active contribution to the global community. By enrolling in a CTE course or program, students learn the technical applications of many occupations while preparing for higher education or entry-level employment. [Areas of study](#) include family and consumer sciences, health and medical sciences, marketing, technology, engineering education, and trade and industrial education. RTC courses are available to all RPS students.

Advanced Placement (AP)

RPS offers a wide range of Advanced Placement (AP) courses to all students. Though typically taken in 11th and 12th grade, students may enroll in these courses at any grade level as long as they meet course-specific prerequisites. All students who take an AP course are expected to take the AP exam at the end of the course; RPS will cover the cost of the exam. Students earning a qualifying score may earn college credit and, in some cases, the exams can be used as a substitute for the Standards of Learning (SOL) assessments. Students who earn a high

enough score on their AP exam may be eligible to receive college credit, advanced placement or both at most colleges across the country.

Special Programs Within Schools

The Governor's Career and Technical Education Academy for STEM in RPS

The Governor's Career and Technical Education Academy for Science, Technology, Engineering, and Mathematics (STEM) offers RPS students a rigorous academic and technical program of study in two career pathways (Engineering and Technology and Therapeutic Services). Courses emphasize in-depth understanding, connect new ideas to prior knowledge, encourage exploration, and help students construct meaning from the course content.

The pathways are a combination of academic and technical study that integrate classroom and real-world learning. Hands-on project-based instruction is used in middle, summer, and high school program components.

Academy coursework, teacher professional development, academic support, career and college development activities, along with parent and community involvement create a community of STEM learners. The Academy raises student aspirations and attracts more students to postsecondary education in preparation for technical careers.

Project Lead the Way (PLTW) curriculum is integrated into the Academy's program of studies. PLTW empowers students to develop and apply in-demand, transportable skills by exploring real-world challenges. Through our pathways in computer science, engineering, and biomedical science, students not only learn technical skills, but also learn to solve problems, think critically and creatively, communicate, and collaborate. We also provide teachers with the training, resources, and support they need to engage students in real-world learning.

International Baccalaureate Diploma Programme

The International Baccalaureate (IB) Programme is a rigorous college preparatory program that is housed in Lucille Brown Middle School and Thomas Jefferson High School (TJHS). Students in grades six through ten are considered a part of the IB Middle Years Programme (IBMYP), and students in 11th and 12th grades are considered a part of the IB Diploma Programme (IBDP). Students may participate in the IB Middle Years Programme (IBMYP) through zoned enrollment at Lucille Brown Middle School and Thomas Jefferson High School (TJHS) or by open enrollment lottery.

IBDP is designed as an academically rigorous and balanced program of education provided in 11th and 12th grade that prepares students for success at the university level and in life. Students participating in IBDP may have the opportunity to pursue the IB Diploma and are expected to complete all program requirements and sit for the year-end examinations. Students earning a qualifying score on IB exams may earn college credit and, in some cases, the exams can be used as a substitute for the SOL assessments. Students enter the IBDP program in 11th grade, and if not already a TJHS student, they can apply to attend TJHS through the specialty school application process. There is no cost to students for participating in this program.

Early College Academy at Reynolds Community College

The Early College Academy (ECA) at Reynolds Community College provides RPS high school students the opportunity to earn an Associate Degree while completing requirements for their high school diploma simultaneously.

Students can apply to the ECA program in the 10th grade through their school counseling office. Once accepted, students take college coursework for the Associate Degree during their 11th and 12th grade year at the Downtown Campus of Reynolds Community College (700 E. Jackson Street, Richmond, VA 23219). Classes are taught by Reynolds Community College professors and are held in the morning Monday through Friday, after which students return to their school for the remainder of their high school classes. Transportation to and from the Reynolds campus is provided by RPS.

The cost of this program is covered by RPS at no charge to students; however, students will be responsible for covering the cost of courses that have to be retaken due to failure to complete the course successfully. Dual enrollment students must participate in all required activities, including spring on-boarding and summer orientation, and demonstrate satisfactory academic performance in order to remain eligible for continued participation. Students must maintain a cumulative GPA of at least 2.75 after each semester to be in good standing. Students with a GPA of 2.5-2.74 will be allowed to remain in the program for one semester but will be dismissed if they do not raise their GPA to 2.75 or above by the end of that probationary period.

Summer Residential Governor's School for Interdisciplinary Studies

The Summer Residential Governor's Schools (SRGS) offered by the Virginia Department of Education (VDOE) provide accelerated and highly motivated high school 11th and 12th graders rigorous and concentrated educational experiences in visual and performing arts; humanities; mathematics, science, and technology; or through mentorships in marine science, medicine, and health sciences, or engineering. Schools are provided by the Commonwealth of Virginia; RPS students may apply to attend. Each SRGS focuses on one special area of interest. Students live on a college or university campus for up to four weeks each summer. During this time, students are involved in classroom and laboratory work, field studies, research, individual and group projects and performances, and seminars with noted scholars, visiting artists, and other professionals. In the three mentorships, students are selected to work side-by-side with research scientists, physicians, and a variety of other professionals. A director and a student-life staff provide supervision of students 24 hours a day, throughout the program.

Nominations for enrollment may be made by teachers, school counselors, peers, or by the students themselves. The RPS selection committee chooses the nominees and forwards the nominees to a state committee.

Consideration is given to students' academic records, test scores, extra-curricular activities, honors, and awards, creativity, original essays, and teacher recommendations. Students applying for the Visual and Performing Arts SRGS participate in a statewide adjudication where they audition or present portfolios for review before a pair of professionals in the specific arts field. Because of the limited number of residential placements available, not all students who are nominated by their schools can be accepted for participation.

2025 Academic Programs

- Agriculture – Virginia Tech, Blacksburg, VA (Also has Engineering and Robotics components)
- Humanities – Radford University, Radford VA
- Mathematics, Science & Technology – University of Lynchburg, Lynchburg VA
- Medicine & Health Sciences – Virginia Commonwealth University, Richmond, VA
- Engineering and NASA – William & Mary, Williamsburg, VA
- Marine Science – Christopher Newport University, Newport News, VA

2025 Visual & Performing Arts Programs (All located at Radford University, Radford, VA)

- Dance
- Instrumental Music
- Vocal Music
- Theatre
- Visual Arts

Alternative Education Offerings

THRIVE High School

THRIVE High School is a program for overaged and under-credited high school students held at the Richmond Tech Center. Students can earn multiple credits in Edgenuity, while earning hands-on, industry credentials in Tech Center courses to become "life ready." Students graduate from their home high school.

Con Ganas

Con Ganas is a year-round program designed for English learners for whom traditional day classes do not meet educational needs due to work-related needs, child-care needs, over-age and under-credited circumstances, or other personal urgent circumstances.

Con Ganas encompasses all of the Virginia Graduation requirements, along with English learner support, to be able to graduate from RPS in 3 years or less with the Standard Diploma.

Location:

Huguenot High School & Online
CTE classes through Richmond Technical Center

Schedule:

Monday & Wednesday: In-person 6:00pm-8:00pm
Tuesday & Thursday: Virtual 6:00-8:30 p.m. for language acquisition and content support.

Instructional Delivery:

Blended model within-person instruction twice per week from 6:00pm- 8:00 pm with content and LIEP teachers; access to online platform at any time
Optional Richmond Technical Center classes during the day

ISAEF Program (Individual Student Alternative Education Plan) at Richmond Alternative School

The Individual Student Alternative Education Plan (ISAEF) program, located at 119 W. Leigh

Street, Richmond, VA 23220, is designed for those students who are at least 16 years of age and enrolled in high school programs who wish to pursue a GED instead of a high school diploma.

Requirements for enrollment in the ISAEP program are as follows:

- Initial Principal-Parent Student (PPS) meeting
- Student evaluation and/or assessment
- 7.5 grade equivalent or higher on a recognized standardized measure of reading achievement
- Achieve a passing score on each of the four subtests of the GED Ready Official Practice Test

Completion of ISAEP Program Requirements are as follows:

- Passing the GED test (high school equivalency)
- Successful completion of the career and technical component
- Completion of an Economics and Personal Finance course

Comprehensive high schools are able to submit student applications for ISAEP enrollment to the Alternative School principal and ISAEP lead teacher.

Newcomer Academy (At Richmond High School for the Arts)

The Newcomer Academy addresses the particular cultural, social- emotional, and linguistic needs of our newcomer English Learners. Through project-based, bilingual learning, newcomer ELs will receive instruction that will allow students to earn credits to meet the criteria needed for graduation and acquire English language skills and literacy at an accelerated rate, improve literacy in their native language, and learn academic language within core contexts. Through wrap-around services, newcomer ELs and their families will receive trauma-informed care from a bilingual school counselor, college and career services through our Academy Specialist, and specialized outreach efforts through our bilingual parent liaison.

Secondary Success Center

The Secondary Success Center offers multiple pathways to success for students who have dropped out of a Richmond Public Schools High School. All interested students will participate in individualized consultations with Secondary Success Center staff members to determine appropriate program placement and other supports needed for successful completion.

The Secondary Success Center gives students who have dropped out of Richmond Public Schools an opportunity to complete high school outside of the traditional comprehensive high school setting. Flexible course offerings along with support from teachers gives students a chance to work at an accelerated pace toward completion. Students can still begin with the center even though we are not meeting in person. Interested students simply need to fill out this [interest form](#), so we can determine eligibility.

Spartan Academy at Richmond Alternative School

Spartan Academy, located at 119 W. Leigh Street, Richmond, VA 23220, serves as a school to support students in grades 6-12 with behavior challenges. Students are either recommended for placement through a panel process or principal's referral. Spartan Academy leverages

positive norms and positive student culture from the group to maintain a positive learning culture.

Graduation & Post-Secondary Preparation

All RPS students should graduate from high school with exciting, promising, and concrete plans for their post-secondary life, with plans to either enroll in college, enlist in national service, and/or have a viable offer of employment to earn a living wage. Essential to this goal is that students engage with their families and counselors and Future Centers to plan an academic path that aligns to their post-secondary plans and do so in a way that ensures they have options from which they are prepared to choose.

Academic & Career Plan

An essential step for every student in preparing for their future is completing an academic and career plan. This plan should be initially created as a portfolio in Elementary School and expanded upon in middle school. Academic and Career Plans are updated on an annual basis as part of the monitoring progress towards high school graduation and preparation for post-secondary plans. Completing and updating an academic and career plan is required for every student. The purpose of this process is to:

- assess personal interests as they relate to career decisions;
- establish short-term and long-term education/career goals;
- formulate thoughtful educational plans that reflect rigorous academics in their chosen career directions;
- participate in electives, extracurricular activities, and community service projects supporting their career directions; and
- identify experiences such as internships or cooperative work experiences during 11th and/or 12th grade that align to students' goals.

As students mature and develop new skills, they may modify their career plan to reflect their new interests and goals. The career interest inventories and activities the students complete during middle and high school utilize the 16 career clusters from the VDOE. Richmond Public School students use [Virginia Wizard](#) to develop their Academic and Career Plan.

Future Centers

In addition to the annual counseling and planning that occurs throughout the Academic and Career Planning process, each comprehensive high school has a Future Center open to all students. Future Center staff also supports our students at the three specialty high schools and in our alternative programs. The Future Centers provide individual and group college planning and advising to students that includes, but is not limited to:

- researching and applying to colleges
- helping students and their families understand financial aid and the FAFSA
- providing resources for students interested in going to the workforce, trade school or the military after high school

Graduation Requirements

It is the choice of every student and family to decide whether to pursue an Advanced Studies or Standard Diploma.

This section outlines Virginia graduation requirements at a glance. Students and families are encouraged to visit the [VDOE website](#) and contact their school counselor for more information.

To graduate with an Advanced Studies or Standard Diploma, students must earn *standard* units of credit in specific courses, as well as *verified* units of credit in specific content areas. Students earn standard credits by successfully completing required and elective courses. Students earn verified credits by successfully completing required courses and passing associated end-of-course SOL tests or other assessments approved by the State Board of Education. Additional requirements for graduation include earning an industry credential and earning credits in sequential electives. Refer to the details below based on your year of entry into high school for specific requirements.

Standard Credits are earned by earning a passing grade in a state or locally approved course. The majority of courses offered by RPS are equal to 1.0 course credit, though select courses may be offered that earn 2.0 course credits or a 0.5 course credit.

Verified Credits are earned by passing an SOL assessment after successfully completing a qualifying course. If a student does not pass an SOL, they may be eligible to retake the SOL test after receiving remediation.

In certain situations, students may be eligible to earn a Locally-Awarded Verified Credit (LAVC) after having failed a SOL exam twice but earning a score in the range of 375-399 on at least one administration. Please see the Addenda of this document for more information on eligibility and process for earning LAVCs. Students may also earn verified credits by passing substitute tests for specific content areas.

Graduation Course Requirements for Students Entering the Ninth Grade for the First Time in 2018-2019 and Beyond

Advanced Studies Diploma Requirements: Coursework & Verified Credits

Subject Areas	Course Credits	Verified Credits	Notes
English	4	2	Students are required to earn one verified credit in reading and one in writing.
Mathematics	4	1	Courses completed to satisfy this requirement shall include at least three different course selections from among: Algebra I, Geometry, Algebra II, or other mathematics courses above the level of Algebra II. The Virginia Board of Education shall approve courses to satisfy this requirement. Per the Standards of Quality, certain computer science courses credit earned by students may be considered a mathematics course credit based on guidelines outlined by the Virginia Board of Education.

Laboratory Science	4	1	Courses completed to satisfy this requirement shall include course selections from at least three different science disciplines from among: Earth Sciences, Biology, Chemistry, or Physics or completion of the sequence of science courses required for the International Baccalaureate Diploma and shall include interdisciplinary courses that incorporate Standards of Learning content from multiple academic areas. The Virginia Board of Education shall approve additional courses to satisfy this requirement. Per the Standards of Quality, certain computer science courses credit earned by students may be considered a science course credit based on guidelines outlined by the Virginia Board of Education.
History & Social Sciences	4	1	Courses completed to satisfy this requirement shall include Virginia and U.S. History, Virginia and U.S. Government, and two courses in either world history or geography or both. The board shall approve additional courses to satisfy this requirement.
World Language	3	0	Courses completed to satisfy this requirement shall include three years of one language or two years of two languages.
Health & Physical Education	2	0	9th & 10th grade Health & Physical Education courses required for graduation.
Fine Arts or Career & Technical Education	1	0	Per the Standards of Quality, a computer science course credit earned by students may be considered a career and technical credit.
Economics & Personal Finance	1	0	
Electives	3	0	Courses to satisfy this requirement shall include at least two sequential electives as required by the Standards of Quality.
TOTAL	26	5	

Advanced Studies: Additional Requirements for Graduation

- **Advanced Placement, Honors, or International Baccalaureate Course or Career and Technical Education Credential** -In accordance with the Standards of Quality, students shall either (i) complete an Advanced Placement, honors, or International Baccalaureate course or (ii) earn a career and technical education credential approved by the board, except when a career and technical education credential in a particular subject area is not readily available or appropriate or does not adequately measure student competency, in which case the student shall receive satisfactory competency-based instruction in the subject area to satisfy the Advanced Studies Diploma requirements. The career and technical education credential, when required, could include the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia workplace readiness assessment.

- Virtual Course - Students shall successfully complete one virtual course, which may be a non-credit-bearing course or a required or elective credit-bearing course that is offered online.
- Training in emergency first aid, cardiopulmonary resuscitation (CPR), and the use of automated external defibrillators (AED) - Students shall be trained in emergency first aid, CPR, and the use of AED, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation. Students with an IEP or 504 Plan that documents that they cannot successfully complete this training shall be granted a waiver from this graduation requirement, as provided in [8VAC20-131-420 B](#).
- Demonstration of the five Cs - Students shall acquire and demonstrate foundational skills in critical thinking, creative thinking, collaboration, communication, and citizenship in accordance with the Profile of a Virginia Graduate approved by the board.

Standard Diploma Requirements: Coursework & Verified Credits

Subject Areas	Course Credits	Verified Credits	Notes
English	4	2	Students are required to earn one verified credit in reading and one in writing.
Mathematics	3	1	Courses 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 approved by the Virginia Board of Education to satisfy this requirement. Per the Standards of Quality, a computer science course credit earned by students may be considered a mathematics course credit.
Laboratory Science*	3	1	<p>Courses completed to satisfy this requirement shall include course selection 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 and shall include interdisciplinary courses that incorporate Standards of Learning content from multiple academic areas. The Virginia Board of Education shall approve courses to satisfy this requirement. Per the Standards of Quality, a computer science course credit earned by students may be considered a science course credit</p> <p>*Students 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 either a laboratory 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</p>

			assessment must be approved by the board as an additional test to verify student achievement.
History & Social Sciences*	3	1	<p>Courses completed to satisfy this requirement shall include Virginia and U.S. history, Virginia and U.S. government, and one course in either world history or geography or both. The Virginia Board of Education shall approve courses to satisfy this requirement.</p> <p>*Students 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 either a laboratory 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 as an additional test to verify student achievement.</p>
Health & Physical Education	2	0	
Fine Arts or Career & Technical Education	1	0	Per the Standards of Quality, credits earned for this requirement shall include one credit in fine or performing arts or career and technical education. Per the Standards of Quality, a computer science course credit earned by students may be considered a career and technical credit.
Economics & Personal Finance	1	0	
Electives	4	0	Courses to satisfy this requirement shall include at least two sequential electives as required by the Standards of Quality.
TOTAL	22	5	

Additional Requirements for Graduation

- Advanced Placement, Honors, or International Baccalaureate Course or Career and Technical Education Credential - In accordance with the Standards of Quality, students shall either (i) complete an Advanced Placement, honors, or International Baccalaureate course or (ii) earn a career and technical education credential approved by the board, except when a career and technical education credential in a particular subject area is not readily available or appropriate or does not adequately measure student competency, in which case the student shall receive satisfactory competency-based instruction in the subject area to satisfy the Advanced Studies Diploma requirements. The career and technical education credential, when required, could include the

successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia workplace readiness assessment.

- Virtual Course - Students shall successfully complete one virtual course, which may be a non-credit-bearing course or a required or elective credit-bearing course that is offered online.
- Training in emergency first aid, cardiopulmonary resuscitation (CPR), and the use of automated external defibrillators (AED) - Students shall be trained in emergency first aid, CPR, and the use of AED, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation. Students with an IEP or 504 Plan that documents that they cannot successfully complete this training shall be granted a waiver from this graduation requirement, as provided in [8VAC20-131-420.B](#).
- Demonstration of the five Cs - Students shall acquire and demonstrate foundational skills in critical thinking, creative thinking, collaboration, communication, and citizenship in accordance with the Profile of a Virginia Graduate approved by the board.

Diploma Seals

Students meeting specific requirements for graduation and demonstrating exemplary performance may receive diploma seals for recognition. VDOE makes available to local school divisions the seals listed below.

GOVERNOR'S SEAL

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

BOARD OF EDUCATION SEAL

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

BOARD OF EDUCATION'S CAREER & TECHNICAL EDUCATION SEAL

The Board of Education's Career & Technical Education Seal is awarded to students who:

- Earn a Standard or Advanced Studies Diploma and complete a prescribed sequence of courses in a career and technical education concentration or specialization that they choose and maintain a "B" or better average in those courses

OR

- Pass an examination or an occupational competency assessment in a career and technical education concentration or specialization that confers certification or occupational competency credential from a recognized industry, trade or professional association

OR

- Acquire a professional license in that career and technical education field from the Commonwealth of Virginia.

BOARD OF EDUCATION'S DIPLOMA SEAL FOR SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (STEM)

The Board of Education's STEM Seal shall be awarded to students who earn either a Standard Diploma or an Advanced Studies Diploma, satisfy all Math and Science requirements for the Advanced Studies diploma with a "B" average or better in all course work, successfully complete a 50 hour or more work based learning opportunity in a STEM area, satisfy all requirements for a Career and Technical Education concentration, (a concentration is a

coherent sequence of two or more state-approved courses as identified in the course listing within the [CTE Administrative Planning Guide](#)), and pass one of the following: a Board of Education CTE STEM-H credential examination, or an examination approved by the Board that confers a college-level credit in a STEM field.

BOARD OF EDUCATION'S EXCELLENCE IN CIVICS EDUCATION

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

1. Satisfy the requirement to earn a Standard Diploma or an Advanced Studies Diploma and complete Virginia & United States History and Virginia & United States Government courses with a grade of "B" or higher, have good attendance and no disciplinary infractions as determined by local school board policies, and complete 50 hours of voluntary participation in community service or extracurricular activities, such as:
 - a. volunteering for a charitable or religious organization that provides services to the poor, sick or less fortunate;
 - b. participating in Boy Scouts, Girl Scouts or similar youth organizations; participating in Junior Reserve Officer Training Corps (JROTC);
 - c. participating in political campaigns, government internships, Boys State, Girls State, or Model General Assembly; or
 - d. 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. Have good attendance and no disciplinary infractions as determined by local school board policies.

BOARD OF EDUCATION'S SEAL OF BILITERACY

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

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

BOARD OF EDUCATION'S SEAL FOR EXCELLENCE IN SCIENCE AND THE ENVIRONMENT

The Board of Education's Seal for Excellence in Science and the Environment is awarded to students who enter the ninth grade for the first time in the 2018-2019 year and thereafter, and meet each of the following criteria:

1. 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;
2. Complete laboratory or field-science research and present that research in a formal, juried setting; and
3. 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.

State Assessment Program & Verified Credits

End-of-course SOL tests for courses detailed in this document and offered at RPS schools are listed in the chart below. All students enrolled in a course that has a SOL test must take the test until they have met their verified credit requirement for that subject area and met all federal accountability requirements.

END-OF-COURSE STANDARDS OF LEARNING TESTS AVAILABLE FOR EARNING VERIFIED CREDITS			
ENGLISH*	MATHEMATICS	LABORATORY SCIENCE	SOCIAL STUDIES
Reading	Algebra I	Earth Science	World History to 1500 A.D.
Writing	Geometry**	Biology***	World History from 1500 A.D. to the Present
	Algebra II	Chemistry	World Geography
			Virginia and U.S. History

**Students should have completed course instruction in the SOL for English 9, 10, and 11 before attempting the EOC Reading and Writing tests.*

***Students who completed Algebra I in middle school will take the Geometry or the Algebra II SOL EOC test in high school to meet federal accountability requirements; those that take Geometry in middle school will take the Algebra II SOL EOC test in high school to meet federal accountability requirements.*

****All students who take Biology will take the Biology SOL EOC test to meet federal accountability requirements even if they have already met the requirement for verified credits in Science.*

Additional Opportunities to Earn Verified Credits

As permitted by the Standards for Accrediting Public Schools (8VAC20-131-110), the Virginia Board of Education has approved various "substitute" tests and set the minimum score that must be achieved to award verified credit to students. The tests listed in this document are approved by the Virginia Board of Education as substitute tests, and a verified credit can be awarded when the student achieves at least the minimum score required for a Pass/Proficient rating adopted by the Virginia Board of Education.

While students may submit other tests on the state-approved substitute test list for verified credit with proper documentation, RPS does not cover the cost or administration of those tests. RPS provides students the following substitute tests and supports the cost and administration of these tests for use as a substitute to the SOL test to earn a verified credit. In the Course Descriptions section of this document, courses that may result in a verified credit as a result of a student earning a minimum score on a substitute test include "(Eligible for Verified Credit)" under the course title.

RPS Supported Substitute Tests for Verified Credits

English End-of-Course Substitute Tests

<i>SOL Test</i>	<i>Substitute Test</i>
Writing	AP English Language & Composition+
Writing	AP Literature & Composition+
Writing	IB English Language A: Literature & Language (HL)+
Writing	IB English Language A: Language and Literature (SL)+
Writing	SAT Writing and Literacy AND Essay Writing Test
Writing	Test of English as a Foreign Language (TOEFL) Internet-based Test (iBT) Writing Sub-Score+
Writing	ACT WorkKeys Business Writing+++
Reading	AP English Language & Composition+
Reading	AP Literature & Composition+
Reading	IB English Language A: Literature & Language (SL)+
Reading	IB English Language A: Literature & Language (HL)+
Reading	PSAT/NMSQT
Reading	SAT Reading Test
Reading	Test of English as a Foreign Language (TOEFL) Internet-based Test (iBT) Reading Subtest+
Reading	ACT WorkKeys Reading for Information++

+Students may use this test to earn two verified credits in English.

++May only be used for "term-grads" who have attempted the SOL at least twice.

+++May only be used for "term-grads" who have attempted the SOL at least once for writing and AP Seminar for Reading.

Mathematics End-of-Course Substitute Tests

<i>SOL Test</i>	<i>Substitute Test</i>
Algebra I	AP Calculus+
Algebra I	IB Math Studies (SL)+
Algebra I	IB Mathematics (SL)+
Algebra I	IB Mathematics (HL)+
Algebra I	PSAT/NMSQT

Algebra I	SAT Math Test
Algebra II	AP Calculus+
Algebra II	IB Math Studies (SL)+
Algebra II	IB Mathematics (SL)+
Algebra II	IB Mathematics (HL)+
Geometry	AP Calculus+
Geometry	IB Math Studies (SL)+
Geometry	IB Mathematics (SL)+
Geometry	IB Mathematics (HL)+

+Students may use this test to earn two verified credits in mathematics

History & Social Science End-of-Course Substitute Tests

<i>SOL Test</i>	<i>Substitute Test</i>
VA & US History	AP US History
VA & US History	IBHistory (HL)
World History and Geography to 1500	AP World History
World History and Geography to 1500	AP European History
World History and Geography 1500-Present	AP World History
World Geography	AP Human Geography

Science End-of-Course Substitute Tests

<i>SOL Test</i>	<i>Substitute Test</i>
Earth Science	IB Environmental Systems and Societies (SL)
Earth Science	AP Environmental Science
Biology	AP Biology
Biology	IB Biology (HL)

Biology	IB Biology (SL)
Chemistry	AP Chemistry

Locally Awarded Verified Credit

Students must earn standard credit by earning a passing grade in courses and verified credit by passing required Standards of Learning SOL tests. To be eligible to earn locally awarded verified credits in English, mathematics, science, or history/social science, a student must:

- Pass the high school course,
- Score within a 375-399 scale score range on any administration of the Standards of Learning test after taking the test at least twice, and
- Demonstrate achievement in the academic content through an appeal process administered at the local level (evidence of mastery).

Credit Accommodations

Certain students with disabilities under the Individuals with Disabilities Education Act (IDEA) or Section 504 of the Rehabilitation Act of 1973 may be eligible for credit accommodations. Credit accommodations provide alternatives for students with disabilities in earning the standard and verified credits required to graduate with a Standard Diploma. Credit accommodations for the Standard Diploma shall be determined by the student's Individualized Education Program (IEP) or Section 504 team, including the student where appropriate, at any point after the student's eighth grade year. The school must secure the informed written consent of the parent/guardian and the student, as appropriate, to choose credit accommodations after review of the student's academic history and full disclosure of the student's options.

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

- A Student must have a current IEP or Section 504 plan with standards-based content goals.
- A Student has a disability that precludes him or her from achieving and progressing commensurate with grade level expectations but is learning on grade level content.
- A Student needs significant instructional support to access grade level SOL content and to show progress.
- Based on multiple objective measures of past performance, a student might not be expected to achieve the required standard and verified units of credit within the standard time frame. There are alternative courses that can be taken to meet the world language requirement. § 22.1-253.13:4. Permit a student who is pursuing an Advanced Studies Diploma and whose individualized education program specifies a credit accommodation for world language to substitute two standard units of credit in computer science for two standard units of credit in a world language. For any student that elects to substitute a credit in computer science for credit in world language, his or her school counselor must provide notice to the student and parent or guardian of possible impacts related to college entrance requirements. (Effective March 2022)

Credit Accommodations for the Advanced Studies Diploma:

Effective March 2022, students who are pursuing an Advanced Studies Diploma and whose individualized education program specifies a credit accommodation for world language to substitute two standard units of credit in computer science for two standard units of credit in a

world language. For any student that elects to substitute a credit in computer science for credit in world language, his or her school counselor must provide notice to the student and parent or guardian of possible impacts related to college entrance requirements.

Post-Secondary Assessments

RPS provides access to certain assessments needed for an array of post-secondary preparation and enrollment. The following tests are available to students of RPS either as a requirement for high school graduation, college admissions and/or placement, scholarships, industry credentials, or NCAA Eligibility.

RPS provides and supports the administration of the following assessments for all students:

PSAT/NMSQT

The Preliminary SAT/National Merit Scholarship Qualifying Test is a co-sponsored program by the College Board and National Merit Scholarship Corporation (NMSC). The PSAT is a standardized test that provides first-hand practice for the SAT. It also gives students a chance to enter the National Merit Scholarship program. The PSAT measures critical reading skills, critical reasoning skills, math problem solving skills and writing skills. These are skills that students acquire over many years, both in and out of school, and do not require recall of specific facts. RPS expects all students in the 10th grade to take the PSAT and provides the exam free of charge to students. RPS encourages students in the 11th grade to take the PSAT again as preparation for the SAT.

All RPS high school students will take the PSAT annually in grades 10, and 11 at no cost to students. The PSAT will enable students and families to understand their progress towards college and career readiness.

SAT

The Scholastic Aptitude Test (SAT) is a standardized test designed to assess a high school student's readiness for post-secondary opportunities. The SAT is also used by many colleges/universities as part of their application process. Though traditionally taken only by students who plan to attend college, RPS provides the SAT during the school day each spring for every 11th grade student. All 11th graders are expected to take the exam during SAT School Day each spring, as the results provide important information regarding college and career readiness and RPS covers this administration of the SAT for all juniors. Students wishing to take the SAT multiple times are encouraged to do so at their own expense, and your counselor can provide support in requesting fee waivers.

ASVAB (Armed Services Vocational Battery)

RPS encourages and supports students in taking the ASVAB, which is required for enlisting in national military service.

Summary of College and Career Readiness Assessments

Grade Level	Fall	Spring
10th	PSAT 10 (All students)	

11th	PSAT/NMSQT (All students)	SAT School Day (All students)
12th	SAT*	SAT*

*If students choose to take the SAT more than once, in addition to the test administered on the SAT School Day, that cost will be incurred by the student and the student is responsible for registration. School Counselors and Future Center Navigators can provide guidance to students on the registration process. Fee waivers may be provided to qualified students.

Course Selection Guidance & Course Descriptions

Use [Assignment Endorsements](#) in planning and placement of highly qualified teachers.

Applied Studies

Applied Studies English 9 (Course Number – B01009-I; VA Assignment Code – N/A)
0 Credit

This course is reduced in depth and complexity for students who are unable to participate in the general education classes due to the severity of their disabilities. This course will be aligned to the competencies in the Applied Studies Curriculum Map while meeting the student's identified learning needs according to the individualized education program (IEP). Instruction will include engagement with texts including building, demonstrating understanding and utilizing various texts to solve problems and meet the needs of adult life. Applied Studies English Course curricula will provide for a differentiated learning sequence that increases in depth and complexity each year based on individual student progress and data.

Graduation Requirements: N/A

Prerequisites: None

Applied Studies English 10 (Course Number – B01009- II; VA Assignment Code – N/A)
0 Credit

See description for Applied Studies English 9

Graduation Requirements: N/A

Prerequisites: None

Applied Studies English 11 (Course Number – B01009- III; VA Assignment Code – N/A)
0 Credit

See description for Applied Studies English 9

Graduation Requirements: N/A

Prerequisites: None

Applied Studies English 12 (Course Number – B01009- IV; VA Assignment Code – N/A)
0 Credit

See description for Applied Studies English 9

Graduation Requirements: N/A

Prerequisites: None

Applied Studies Mathematics 9 (Course Number – B02002-I; VA Assignment Code – N/A)
0 Credit

This course is reduced in depth and complexity for students who are unable to participate in the general education classes due to the severity of their disabilities. This course will be aligned to the competencies in the Applied Studies Curriculum Map while meeting the student's identified learning needs according to the individualized education program (IEP). Instruction will include the utilization of mathematical concepts to coordinate and plan daily activities as well as using mathematical concepts to accomplish tasks and solve real world problems. Applied Studies Math Course curricula will provide for a differentiated learning sequence that increases in depth and complexity each year based on individual student progress and data.

Graduation Requirements: N/A

Prerequisites: None

Applied Studies Mathematics 10 (Course Number – B02002-II; VA Assignment Code – N/A)
0 Credit

See description for Applied Studies Mathematics 9

Graduation Requirements: N/A

Prerequisites: None

Applied Studies Mathematics 11 (Course Number – B02002-III; VA Assignment Code – N/A)
0 Credit

See description for Applied Studies Mathematics 9

Graduation Requirements: N/A

Prerequisites: None

Applied Studies Mathematics 12 (Course Number – B02002-IV; VA Assignment Code – N/A)

0 Credit

See description for Applied Studies Mathematics 9

Graduation Requirements: N/A

Prerequisites: None

Applied Studies Science 9 (Course Number – B03239-I; VA Assignment Code – N/A)

0 Credit

This course is reduced in depth and complexity for students who are unable to participate in the general education classes due to the severity of their disabilities. This course will be aligned to the competencies in the Applied Studies Curriculum Map while meeting the student's identified learning needs according to the individualized education program (IEP). Instruction will include the use of classification methods to organize information, conservation of natural resources and application of scientific knowledge across multiple areas of scientific inquiry. Applied Studies Science Course curricula will provide for a differentiated learning sequence that increases in depth and complexity each year based on individual student progress and data.

Graduation Requirements: N/A

Prerequisites: None

Applied Studies Science 10 (Course Number – B03239- II; VA Assignment Code – N/A)

0 Credit

See description for Applied Studies Science 9

Graduation Requirements: N/A

Prerequisites: None

Applied Studies Science 11 (Course Number – B03239- III; VA Assignment Code – N/A)

0 Credit

See description for Applied Studies Science 9

Graduation Requirements: N/A

Prerequisites: None

Applied Studies Science 12 (Course Number – B03239- IV; VA Assignment Code – N/A)

0 Credit

See description for Applied Studies Science 9

Graduation Requirements: N/A

Prerequisites: None

Applied Studies History and Social Science 9 (Course Number – B04439-I; VA Assignment Code – N/A)

0 Credit

This course is reduced in depth and complexity for students who are unable to participate in the general education classes due to the severity of their disabilities. This course will be aligned to the competencies in the Applied Studies Curriculum Map while meeting the student's identified learning needs according to the individualized education program (IEP). Instruction will include understanding of basic values principles and operation of government and other organizations. Additional focus areas for instruction will include, economics, civil and legal rights, map skills and interpersonal communication and relationships. Applied Studies History/Social Science Course curricula will provide for a differentiated learning sequence that increases in depth and complexity each year based on individual student progress and data.

Graduation Requirements: N/A

Prerequisites: None

Applied Studies History and Social Science 10 (Course Number – B04439-II; VA Assignment Code – N/A)

0 Credit

See description for Applied Studies History and Social Science 9

Graduation Requirements: N/A

Prerequisites: None

Applied Studies History and Social Science 11 (Course Number – B04439-III; VA Assignment Code – N/A)

0 Credit

See description for Applied Studies History and Social Science 9

Graduation Requirements: N/A

Prerequisites: None

Applied Studies History and Social Science

12 (Course Number – B04439-IV; VA

Assignment Code – N/A)

0 Credit

See description for Applied Studies History and Social Science 9

Graduation Requirements: N/A

Prerequisites: None

Adaptive Health and Physical Education 9

(Course Number – 08049-I; VA Assignment Code – N/A)

0 Credit

This course is designed for students who are expected to meet grade level curriculum standards in Health and Physical Education 9 but who are unable to participate in the general education classes due to the severity of their disabilities. This course will follow the description for general education Health and Physical Education 9 as closely as possible while meeting the student's identified learning needs according to the individualized education program (IEP).

Graduation Requirements: N/A

Prerequisites: None

Adaptive Health and Physical Education 10

(Course Number – 08049-II; VA Assignment Code – N/A)

0 Credit

This course is designed for students who are expected to meet grade level curriculum standards in Health and Physical Education 10 but who are unable to participate in the general education classes due to the severity of their disabilities. This course will follow the description for general education Health and Physical Education 10 as closely as possible while meeting the student's identified learning needs according to the individualized education program (IEP).

Graduation Requirements: N/A

Prerequisites: None

Communication Instruction (Course Number – 22252; VA Assignment Code – N/A)

0 Credit

This course is designed to assist students with communicating thoughts and ideas to others. Emphasis will be placed on the development of listening, speaking, reading, and writing skills. In addition, students will have an opportunity to learn, practice, and refine the skills, knowledge, and attitudes identified as necessary for self-advocacy and determination.

Graduation Requirements: N/A

Prerequisites: None

Community Living Skills (Course Number – 22251; VA Assignment Code – N/A)

0 Credit

This course is designed for students to explore independent living and workplace skills by identifying individual assets, interests, aptitudes, talents, and current occupational abilities. Through practical experiences related to daily living and work, students determine strategies to improve their assets and ways to emphasize their strengths at home, school, and in the workplace.

Graduation Requirements: N/A

Prerequisites: None

Social Development Instruction (Course Number – 22253; VA Assignment Code – N/A)

0 Credit

This course is designed to provide instruction in the areas of time management, study and communication skills. Emphasis will be placed on building peer relationships, self-management, self-advocacy, and academic skills.

Graduation Requirements: N/A

Prerequisites: None

Career and Technical Education

A Note on CTE Courses and Cooperative Education Course Eligibility

Cooperative Education is a work-based learning experience that connects Career and

Technical Education classroom instruction with paid workplace experience directly related to the student's interests, abilities, and goals. Students participating in cooperative education are guided by a formal, written training plan that defines specific academic and workplace skills to be mastered and monitored by a cooperative education coordinator. Students must meet all eligibility of the program to participate. Students will receive one course credit upon successful completion.

Business and Information Technology Accounting (Course Number – 12104-I; VA Assignment Code – 6320) 1 Credit

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

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Keyboarding or Digital Applications course(s) or teacher approved demonstration and documentation of touch keyboarding skills

Cooperative Education Available

Advanced Accounting (Course Number – 12104-II; VA Assignment Code – 6321) 1 Credit

Advanced Accounting students gain knowledge of advanced accounting principles, procedures, and techniques used to solve business problems and make financial decisions. Students work in a technology-integrated environment, using accounting and spreadsheet software to analyze, synthesize, evaluate, and interpret business financial data related to inventory, fixed assets, notes/accounts payable and

receivable, implementation of a partnership and a corporation, and other specialized accounting systems. Using authentic workplace scenarios that reflect current industry trends and standards, students analyze financial data and acquire knowledge of business ethics.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Accounting

Computer Information Systems (Course Number – 10005-II; VA Assignment Code – 6612) 1 Credit

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

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course. Recommended

Prerequisites: Keyboarding or Digital Application course(s).

Advanced Computer Information Systems (Course Number – 10005-IV; VA Assignment Code – 6613) 1 Credit

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

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Computer Information Systems

Advanced Design, Multimedia, & Web Technologies (Course Number – 10203-IV; VA Assignment Code – 6631)

1 Credit

In this course, students acquire advanced skills in design, multimedia, and web development by applying project management principles to create professional quality digital media projects. Work-based learning experiences allow students to apply layout and design techniques in real world situations. Students create portfolios that include a résumé, certifications earned, and a variety of print, multimedia, and website projects produced in the course.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Design, Multimedia, & Web Technologies

Advanced Entrepreneurship (Course Number – 12053-II; VA Assignment Code – 9094)

1 Credit

This course is designed for students who wish to concentrate on advanced strategies for entrepreneurship, building upon concepts introduced in Entrepreneurship (9093). The focus of the course is on the development of a business plan and small business management. Students will establish, market, and maintain a business.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Entrepreneurship

Advanced Programming (Course Number – 10152-II; VA Assignment Code – 6641)

1 Credit

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

and engage in various career-building activities.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Programming

Business Law (Course Number - 12054-36; VA Assignment Code - 6131)

1 Credit

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

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Cybersecurity Fundamentals (Course Number – 10302- I; VA Assignment Code – 6302)

1 Credit

Cybersecurity affects every individual, organization, and nation. This course focuses on the evolving and pervasive technological environment with an emphasis on securing personal, organizational, and national information. Students will be introduced to the principles of cybersecurity, explore emerging technologies, examine threats and protective measures, and investigate the diverse high-skill, high-wage, and high-demand career opportunities in the field of cybersecurity. Exciting opportunities will be presented to use interactive current resources in the study of cybersecurity such as Virginia Cyber Range, Virginia Space Grant Consortium, and Cyber.Org. Students will have the opportunity to prepare for success on related industry certifications aligned to the course content.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a

standard credit course.

Prerequisites: None

Design, Multimedia, & Web Technologies
(Course Number – 10203-II; VA Assignment Code – 6630)

1 Credit

Students apply creativity and technology to create visual design, multimedia projects, and web projects, using industry-standard software. Work-based learning experiences allow students to apply layout and design techniques in real-world situations. Students create portfolios that include a résumé, certifications earned, and a variety of projects produced in the course.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Digital Applications (Course Number – 10004-36; VA Assignment Code – 6611)

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. Students who successfully complete this course may be eligible for a rigorous and relevant industry certification examination. Student skills may be enhanced by participation in high quality learning activities and/or the Future Business Leaders of America (FBLA).

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Economics & Personal Finance (Course Number – 19262-I; VA Assignment Code – 6120)

1 Credit

Students learn how economies and markets operate and how the United States economy is interconnected with the global economy. Additionally, they learn how to navigate the financial decisions they must face and to make informed decisions relating to career exploration, budgeting, banking, credit, insurance, spending, financing postsecondary education, taxes, saving and investing, buying/leasing a vehicle, and living independently. They also learn the importance of investing in themselves in order to gain the knowledge and skills valued in the marketplace. Development of financial literacy skills and an understanding of economic principles will provide the basis for responsible citizenship, more effective participation in the workforce, and career success. The course incorporates all economics and financial literacy objectives included in the Code of Virginia §22.1-200-03B.

Graduation Requirements: This course is required to fulfill Economics & Personal Finance credit and meets graduation requirements for online course

Prerequisites: None

Entrepreneurship (Course Number – 12053-1; VA Assignment Code – 9093)

1 Credit

This course introduces students to the exciting world of creating, owning, and launching their own business. Students will learn concepts and techniques for planning an entrepreneurial venture, using design thinking and business model development. Students will learn about financial statements, marketing principles, sales and customer service, and basic economic principles for successful operation.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Information Technology Fundamentals
(Course Number – 10254; VA Assignment

Code – 6670)**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/trouble shooting, and networking fundamentals. Students also explore ethical issues related to computers and Internet technology and examine web pages and game design.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course. Recommended Prerequisites: Keyboarding course(s) or teacher-approved demonstration and documentation of touch keyboarding skills.

Legal Administration (Course Number – 12008-36; VA Assignment Code – 6735)**1 Credit**

Students explore various areas of law (e.g., civil, criminal, family, real estate, estate, and probate) while preparing for employment in the legal field. Students gain knowledge and skills in legal document preparation, office communications, legal terminology, client services, records management, financial records, and business ethics. Successful completion of this course may lead to an entry level position in a law office, court office, law enforcement agency, corporate legal department, or to postsecondary education.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Medical Administration (36 Weeks) (Course Number – 14153-36; VA Assignment Code – 6730)**1 Credit**

Students wishing to gain employment in the healthcare field may take this course to learn how to use medical terminology and apply administrative procedures necessary to be productive employees in a healthcare environment. Students will learn how to

manage office activities, enhance communication and employability skills, identify legal and ethical issues in healthcare practices, and manage financial activities.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Keyboarding course(s) or teacher-approved demonstration and documentation of touch keyboarding skills

Office Administration (36 Weeks) (Course Number – 12003-36; VA Assignment Code – 6621)**1 Credit**

Students develop and enhance skills in processing and managing information, data, and financial functions while developing and improving communication skills and other vital competencies needed for successful employment as administrative support professionals. Students examine and employ the latest technology and software used in office systems.

Principles of Business and Marketing (Course Number – 12051-36; VA Assignment Code – 6115)**1 Credit**

Students discover the roles of business and marketing in the free enterprise system and the global economy. Students examine basic financial concepts of banking, insurance, credit, taxation, and investments to provide a strong background for making sound decisions as consumers, wage earners, and citizens. The real-world effects of technology, effective communication, and interpersonal skills is evident throughout the course.

This course also supports career-development skills and explores career options.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Programming (Course Number – 10152-I; VA Assignment Code – 6640)**1 Credit**

Students in the Programming course explore programming concepts, use algorithmic

procedures, implement programming procedures with one or more standard languages, and master programming fundamentals. Coding is used throughout the course. Graphical user interfaces may be used as students design and develop interactive multimedia applications, including game programs. In addition, students employ hypertext markup language (HTML) or JavaScript to create web pages. Students develop their employability skills through a variety of activities.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Keyboarding course(s) or teacher-approved demonstration and documentation of touch keyboarding skills and Information Technology Fundamentals

Career Connections

Education for Employment I - Preparation
(Course Number – 22153-36; VA Assignment Code – 9078)

1 Credit

This course teaches students to make informed career and continuing education choices as they transition from school, gain technical skills, and adapt to the workplace. Students are taught ethical behaviors and career research, job acquisition, workplace communication, self-awareness, self-advocacy, customer service, and life skills. This course offers students integrated labor market needs through an applied employment education format. This course is designed specifically for students with disabilities.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Education for Employment II - Preparation
(Course Number – 22902-36; VA Assignment Code – 9080)

1 Credit

This course teaches students to make informed career and continuing education choices as they transition from school, gain technical skills, and adapt to the

workplace. Students are taught ethical behaviors and career research, job acquisition, workplace communication, self-awareness, self-advocacy, customer service, and life skills. This course offers students integrated labor market needs through an applied employment education format. This course is designed specifically for students with disabilities.
Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Education for Employment I - Preparation

Personal Living & Finance (Course Number – 02901; VA Assignment Code – 3120)
1 Credit

Students learn how to navigate the financial decisions they must face and to make informed decisions related to budgeting, banking, credit, insurance, spending, taxes, saving, investing, buying/leasing a vehicle, living independently, and inheritance. Instruction in personal finance prepares students to function effectively as consumers, savers, investors, entrepreneurs, and active citizens. The course incorporates all personal living and finances objectives included in the Code of Virginia §22.1-253.13:1.B. This course may be used in lieu of Economics and Personal Finance for eligible students.

Graduation Requirements: N/A

Prerequisites: None

Family and Consumer Services

Child Development and Parenting (Course Number – 19255-36; VA Assignment Code – 8232)

1 Credit

Students enrolled in Child Development and Parenting focus on balancing work and family. Students will analyze parenting roles and responsibilities ensuring a healthy start for mother and child, evaluate support systems that provide services for parents, and evaluate parenting practices that maximize human growth and development. This course will use a combination of

technology (computer, reality babies) and lecture to distribute information.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Early Childhood, Education, and Services I (Course Number - 19153-I; VA Assignment Code -8285)

2 Credits

Students prepare to be primary providers of home-, family-, or institution-based childcare services by focusing on the planning, organizing, and conducting of meaningful play and learning activities; child monitoring and supervision; recordkeeping and referral procedures; and work-based learning experiences in on-site labs, local daycare centers, elementary schools, and other institutions under the supervision of the instructor. Students also prepare for continuing education leading to careers in early childhood fields (e.g., medical, social services, education).

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Child Development and Parenting

Early Childhood, Education and Services II (Course Number - 19153-II; VA Assignment Code -8286)

2 Credits

Students focus on occupational skills needed by personnel employed in early childhood-related careers, such as education, medical/health care, social services, counseling, psychology, and entrepreneurship. Work-based learning experiences in on-site labs, early childhood development centers, elementary schools, and other institutions under the supervision of the instructor are required.

Graduation Requirements: This is an elective course and does not fulfill the

requirements of a standard credit course.

Prerequisites: Early Childhood Education and Services I

Fashion Careers I (Course Number – 19201-I; VA Assignment Code – 8280)

1 Credit

Students in Fashion Careers I participate in hands-on experiences creating original products while applying design techniques and skills. Work-based learning within the fashion industry is encouraged to provide opportunities for students to develop employability skills.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Introduction to Fashion Careers

Hospitality, Tourism and Recreation I (Course Number - 16999-I; VA Assignment Code - 8202)

2 Credits

Students begin preparation for employment in hospitality industries by focusing on principles of operations in food services, recreation, hospitality planning, and business relations. Special attention is paid to the development of culinary skills (food sanitation, food preparation, and serving) and customer service skills.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Hospitality, Tourism and Recreation II (Course Number - 16999-II; VA Assignment Code - 8203)

2 Credits

Students continue preparation for employment in hospitality industries by focusing on principles of operations in travel and tourism, lodging, food services, hospitality planning, and business relations. Special attention is paid to the development of skills used in the lodging industry (rooms, sales and marketing, front office, and housekeeping divisions) and customer-service skills.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Hospitality, Tourism, and Recreation I

Independent Living (Course Number – 22904-36; VA Assignment Code – 8219)

1 Credit

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

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Introduction to Culinary Arts (Course Number – 16051- 36; VA Assignment Code – 8250)

1 Credit

Introduction to Culinary Arts students investigate food safety and sanitation, culinary preparation foundations, basic culinary skills, diverse cuisines, service styles, nutrition and menu development, and the economics of food. Students also explore postsecondary education options and career opportunities within the food service industry. This course will use a combination of technology and lecture to distribute information.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Introduction to Fashion Careers (Course Number – 19201-36; VA Assignment Code – 8248)

1 Credit

Introduction to Fashion Careers students learn what it takes to be successful in fashion by exploring careers within the industry. Instruction focuses on hands-on experiences. Students apply the design process from concept to final product and demonstrate

basic fashion design techniques. This course will use a combination of technology and lecture to distribute information.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Nutrition & Wellness (Course Number – 19253-36; VA Assignment Code – 8229)

1 Credit

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

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Virginia Teachers for Tomorrow I (Course Number – 19151-I; VA Assignment Code – 9062)

1 Credit

Virginia Teachers for Tomorrow (VTfT) fosters student interest, understanding, and appreciation of the teaching profession and allows secondary students to explore careers in education. Students build a foundation for teaching, learn the history, structure and governance of teaching, apply professional teaching techniques in the VTfT classroom and field experience, and reflect on their teaching experiences. Additional educational leadership opportunities are offered through the student organization Educators Rising. This course will use a combination of technology, research, project creation, and lecture to distribute information. There is also the opportunity to compete in a CTSO conference.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Virginia Teachers for Tomorrow II (Course Number – 19151-II; VA Assignment Code – 9072)

1 Credit

Students continue to explore careers in the Education and Training cluster and pathways. This course provides the opportunity for students to prepare for careers in education as they research postsecondary options, learn about the process of teacher certification in Virginia, and participate in a practicum experience.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Virginia Teachers for Tomorrow I

Marketing

Strategic Marketing (Course Number –12152; VA Assignment Code –8130)

1 Credit

Students build on knowledge gained in a prior Marketing course. Students participate in supervisory and management activities focusing on the marketing mix, purchasing, financing, human resources, global marketing, pricing, and emerging technologies. Students will prepare for advancement in marketing careers and postsecondary education.

Computer/technology applications and DECA activities enhance the course. DECA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Suggested Marketing
Cooperative Education Available

Marketing (Course Number – 12164; VA Assignment Code – 8120)

1 Credit

Students examine activities in marketing and business important for success in marketing employment and postsecondary education. Students will learn how products are developed, branded, and sold to businesses and consumers. Students will

analyze industry trends and gain hands-on experience in the marketing of goods, services, and ideas. Topics will include professionalism in the workplace, product planning and positioning, promotion, pricing, selling, economic issues, and the impact of technology on the marketplace. Computer /technology applications and DECA activities enhance the course. DECA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Cooperative Education Available

Lodging Management (Course Number – 12159; VA Assignment Code – 8159)

1 Credit

Students with an interest in lodging management and operations develop specialized skills in the areas of human resources and supervision, marketing and public relations, sales, front-office functions, guest relations, communication, financial functions, food and beverage, housekeeping operations, security, and engineering. In addition, students gain a thorough understanding of the lodging industry and the career options available. Computer applications and DECA activities, with opportunities in leadership, community, and competitive events, enhance the course.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Cooperative Education Available

Fashion Marketing (Course Number – 12153-I; VA Assignment Code – 8140)

1 Credit

This course leads students into the exciting and ever-changing world of fashion. Students gain knowledge of marketing as it relates to the fashion industry. From brick-and-mortar retail establishments to online retail and social media marketing, students will explore aspects such as trends, technology, the

buying process, visual merchandising, the nature and history of fashion and fashion designers, and the global impact of the fashion industry on the economy. Academic skills related to the content are part of this course.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Cooperative Education Available

Advanced Fashion Marketing (Course Number – 12153- II; VA Assignment Code – 8145)

1 Credit

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

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Fashion Marketing

Cooperative Education Available

Digital and Social Media Marketing (Course Number – 12162; VA Assignment Code – 8125)

1 Credit

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, as well as careers in digital and social media marketing. This course reinforces mathematics, science, English, and history and social science Standards of Learning. Computer/technology applications and DECA activities enhance the course. DECA, the co-curricular student

organization, offers opportunities in leadership, community, and competitive events.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Cooperative Education Available

Marketing Management (Course Number – 12166; VA Assignment Code – 8132)

1 Credit

This course is designed for high school students who plan to attend college with a concentration in marketing, business, or management and/or who have plans to manage or own a business.

Students will be exposed to all aspects of marketing and management, including branding, digital marketing, promotion, communication, and career opportunities in marketing. This course will prepare students for industry certifications (including the College Level Examination Program [CLEP] examination, which may lead to them earning college credit at many accredited colleges and universities across the country).

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Cooperative Education Available

Opportunities in Global Trade (Course Number – 12056- I; VA Assignment Code – 8135)

1 Credit

Opportunities in Global Trade is a specialized course for students with a career interest in the field of international trade. Students gain an understanding of the various careers in global trade, finance, shipping, and marketing and consider fundamental concepts, principles, and theories of marketing in an international setting. Course content blends macroeconomic and microeconomic theory with international culture, politics, legal issues, concepts,

practices, and applications. Internships may be available to provide students with additional opportunities for "hands-on" experiences in international marketing.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Cooperative Education Available

Advanced Opportunities in Global Trade (Course Number – 12056- II; VA Assignment Code – 8136)

1 Credit

Advanced Opportunities in Global Trade, a specialized course for students with a career interest in international trade, builds upon concepts learned in Opportunities in Global Trade (8135). Economic and international trade concepts are reviewed, and the world environment of international trade is further explored. Students expand their knowledge about the impact of culture on international trade and continue their study of the legal and political aspects of international marketing. Global product strategies are examined. Concepts detailing entry into international markets, pricing strategies, international promotion, and marketing research are studied. Computer/technology applications supporting international marketing are explored. A review of skills and preparation required for careers in international marketing complete this course.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Opportunities in Global Trade
Cooperative Education Available

Real Estate (Course Number – 12154; VA Assignment Code – 8191)

1 Credit

Students learn to apply real estate principles such as sales, real estate financing, ownership rights, investments, ethics, and laws. This course also meets the Virginia Department of

Professional and Occupational Regulation (DPOR's) required 60 class/clock hours of real estate salesperson pre-license education.

Upon successful completion of the course students are eligible to take the Virginia real estate salesperson licensing exam.*

Correspondence with the Virginia Department of Education's marketing specialist will be required to obtain a letter of approval from the Real Estate Board to submit the testing application. Academic skills (mathematics, science, English, and history/social science) related to the content are a part of this course. Students use computer/technology applications in support of course objectives. Work Based learning opportunities are suggested for this course.

*Individuals must be 18 years of age and have a high school diploma before applying for licensure as a real estate salesperson in Virginia. Additionally, those interested in pursuing licensure should be aware of the costs involved (e.g., application fee, testing fee, continuing education fees).

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Marketing or Principles of Business and Marketing or Entrepreneurship Education or Digital and Social Media Marketing

Cooperative Education Available

Sports and Entertainment Management (Course Number – 12163-II; VA Assignment Code – 8177)

1 Credit

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

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None
Cooperative Education Available

Sports and Entertainment Marketing (Course Number – 12163-I; VA Assignment Code – 8175)

1 Credit

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

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None
Cooperative Education Available

Military Science

Army JROTC I (Course Number – 09051; VA Assignment Code – AR7913)

1 Credit

This course introduces students to the foundations of the Army JROTC program, the rights and responsibilities of U.S. citizenship, the principle components of leadership, and the foundational elements needed for academic and career success. Additionally, students receive instruction in U.S. and military history, discipline, personal wellness, physical fitness, career education, and workplace readiness skills. Military customs and courtesies, proper uniform wear, and personal appearance guidelines are established and reinforced in the classroom, drill, and military ceremonies.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Army JROTC II (Course Number – 09052; VA Assignment Code – AR7916)

1 Credit

This course continues to provide students instruction in the Army JROTC program and the rights and responsibilities of U.S. citizenship. Students continue to learn leadership skills, U.S. and military history, the origins and development of the U.S. government, discipline, personal wellness, physical fitness, first aid, map skills, career education, and workplace readiness skills. Military customs and courtesies, proper uniform wear, and personal appearance guidelines are emphasized within the leadership lab, drill, and military ceremonies.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Army JROTC I

Army JROTC III (Course Number – 09053; VA Assignment Code – AR7918)

1 Credit

Students are instructed in the Army JROTC curriculum, where U.S. citizenship rights and responsibilities are reinforced. This course continues to provide students instruction in the Army JROTC program, reinforcing U.S. citizenship rights and responsibilities. Students continue instruction in leadership, military history, discipline, physical fitness, career education, financial planning, personal development, and workplace readiness skills. Military customs and courtesies, proper uniform wear, and personal appearance guidelines are required in the leadership lab, drill, and military ceremonies.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Army JROTC II

Army JROTC IV (Course Number – 09054; VA Assignment Code – AR7919)

1 Credit

Students continue instruction in the Army JROTC program, consisting of U.S. citizenship rights and responsibilities, leadership, military history, discipline, citizenship, physical fitness,

career education, and workplace readiness skills. Students receive additional instruction in military customs and courtesies, proper uniform wear, and personal appearance guidelines. Adherence to the guidelines is required in leadership lab, drill, and military ceremonies.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Army JROTC III

Technology Education

Advanced Drawing and Design (course number 21149; VA Assignment Code - 8438)

1 Credit

Students use graphic language for product design and technical illustration. Students research design-related fields while identifying the role of advanced drawing and design in manufacturing and construction industry processes. They apply the design process, analyze design solutions, reverse engineer products, create 3D solid models using computer-aided design (CAD), construct physical models, and create multimedia presentations of finished designs. Students will complete a work portfolio based on a chosen graphic project.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Aerospace Technology I (course number - 21055; VA Assignment Code - 8473)

1 Credit

Aerospace Technology I offers an introduction to the aerospace industry through a hands-on approach and exploration of topics such as flight, space, and supporting technologies. Students explore the aviation and space industries by examining the history of aviation, aerodynamics and aircraft components, flight conditions, airport and flight operations, space systems, rocketry, and living and working in space.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Aerospace Technology II (course number - 21055-II; VA Assignment Code - 8488)

1 Credit

Aerospace Technology II provides an advanced exploration of flight, space travel, and supporting technologies through a practical approach centered around problem solving. Students explore concepts in aircraft operations; aircraft design, flight safety, and maintenance; airport infrastructure; and small unmanned aircraft systems (sUAS).

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Aerospace Technology I

Architectural Drawing and Design (Course Number - 21103-36; VA Assignment Code - 8437)

1 Credit

Students learn the principles of communicating architecture designs and increase their understanding of working drawings and construction techniques learned in Technical Drawing and Design. Experiences include residential and commercial building designs, rendering, model development, and structural detail developments. Students use computer-aided drawing and design (CADD) equipment and established standards or codes to prepare models for presentation. The course is especially beneficial to future architects, interior designers, or home builders.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisite: None

Game Design and Development
(Course Number-10205-II;VA Assignment Code-8400) **1 Credit**

The game design industry is the fastest revenue growing entertainment medium, and has created many new job disciplines. In this

project-based course, students will create innovative games through the application of graphic design, animation, audio, and writing skills. Students will work in teams while developing problem-solving, critical thinking, and effective communication skills. They will analyze, design, prototype, and critique interactive games within a project management environment. Career opportunities across multiple industries, including the entertainment and educational arenas, will be explored. Contextual instruction and student participation in co-curricular career and technical student organization (CTSO) activities will develop leadership, interpersonal, and career skills.
Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Technical Drawing and Design (Course Number – 21101-36; VA Assignment Code – 8435)

1 Credit

In this foundation course, students learn the basic language of technical drawing and design, and they design, sketch, and make technical drawings, models, or prototypes of real design problems. The course is especially recommended for future engineering and architecture students.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Technology Foundations (Course Number – 21003-36; VA Assignment Code – 8403)

1 Credit

In this hands-on technology education course, students use tools to build and control objects and systems using engineering design. Students will learn about materials, energy, and engineering processes. Students design, create, and assess innovations, systems, and products to learn about how and why technology works. This introductory course is a prerequisite for Technology Transfer and Technology Assessment.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Technology of Robotic Design (Course Number 21009-36; VA Assignment Code 8421) (Pending VDOE Approval)

1 Credit

Students engage in the study of computers and microprocessors and their applications to manufacturing, transportation, and communication systems. Topics include computer equipment and operating systems, robotics, programming, control systems, and social/cultural impact of these technologies. Problem-solving activities challenge students to design, program, and interface devices with computer systems. Learning activities include robotics, computer-aided design, computer-aided manufacturing and design, and control of electromechanical devices.

Technology Transfer (Course Number – 21052-36; VA Assignment Code – 8405)

1 Credit

Students learn how existing technologies developed for one purpose can be applied to a different function. Groups work together, applying science, technology, engineering and mathematics (STEM) concepts to projects. Students engage in hands-on activities to learn that the transfer of a technology from one society to another can cause cultural, social, economic, and political challenges.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Technology Foundations

Unmanned Aircraft Systems (Course Number 20905-36; VA Assignment Code 8910 –)

1 Credit

Unmanned Aircraft Systems prepares students to fly drones under the Federal Aviation Administration's (FAA) Part 107 guidelines. Students get an overview of the national airspace system, FAA regulations, and the design and operation of small drones, and

performance of small drones and coordinate flight operation logistics. They perform administrative tasks, train to fly, and finally fly small unmanned aircraft systems (SUAS).

Contextual instruction and student participation in co-curricular career and technical student organizations (CTSO) activities will develop leadership, interpersonal, and career skills. High-quality work-based learning (HQWBL) will provide experiential learning opportunities related to students' career goals and/or interests, integrated with instruction, and performed in partnership with local business organizations. *Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.*

Prerequisites: None

Dual Enrollment

Chemistry (Course Number - DE03101: VA Assignment Code N/A)

1 Credit

This course explores the experimental and theoretical concepts of general chemistry while emphasizing scientific reasoning, critical and analytical thinking.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Earth Science, Biology

Criminal Justice I (Course Number – DE15051-I; VA Assignment Code – DE8702)

1 Credit

Students are introduced to law, public safety, corrections, and security practices. Students examine contemporary issues in the criminal justice system and explore crime scene investigation, criminal investigation, court procedures, policing, and juvenile justice. This course provides a foundation for careers as lawyers, as forensics specialists, and as law enforcement and corrections officers.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Criminal Justice II (Course Number – DE15051-II; VA Assignment Code – DE8703)

2 Credits

Students apply knowledge learned in Criminal Justice I through practical scenarios involving crime scene investigation, criminal investigation, and crisis intervention. Students explore trends in correctional standards and in identifying and preventing terror threats. This course prepares students for careers as lawyers, forensics specialists, and law enforcement and corrections officers.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Criminal Justice I

Emergency Medical Technician I (Course Number – DE14055-I; VA Assignment Code – DE8333)

1 Credit

The tasks for this course represent the National and Virginia Emergency Medical Services (EMS) Educational Standards. Students explore and apply the fundamentals of EMS, anatomy, physiology, and medical terminology while demonstrating skills in assessing and managing patient care, including assessing the scene and understanding shock, resuscitation, and trauma. Successful completion of this course and instructor endorsement qualifies students to enroll in EMT II to complete the program sequence. Students must complete a minimum of 85 percent of the didactic and lab aspects of the course, per 12VAC5-31-1501 in the Code of Virginia. Successful completion of all course requirements and instructor endorsement may lead to eligibility to take the Virginia State Psychomotor Exam and the National Registry of Emergency Medical Technicians (NREMT) cognitive exam. Students must meet the requirements of the Functional Position Description for the Basic Life Support Provider (refer to EMS.TR.14B and 12VAC5-31-1501 in the Code of Virginia).

NOTE: Students must be at least 16 years old

prior to the first day of EMT instruction. All students will need to undergo a criminal background check that includes fingerprinting and drug screening.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Emergency Medical Technician II (Course Number – DE14055-II; VA Assignment Code – DE8334)

1 Credit

The tasks for this course represent the National and Virginia Emergency Medical Services (EMS) Educational Standards. Students build on their knowledge and skills for providing basic life support by focusing on the areas of EMS operations, medical emergencies, and management of special patient populations. Supervised field experience that includes at least 10 patient contacts outside of school hours is required. Successful completion of this second course in the sequence will earn the student CTE completer status. Successful completion of all course requirements and instructor endorsement may lead to eligibility to take the Virginia State Psychomotor Exam and the National Registry of Emergency Medical Technicians (NREMT) cognitive exam. ++Students+*/+* must meet the requirements of the Functional Position Description for the Basic Life Support Provider (refer to EMS.TR.14B and 12VAC5-31-1501 in the Code of Virginia). Students must complete a minimum of 85 percent of the didactic and lab aspects of the course, per 12VAC5-31-1501 in the Code of Virginia.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Emergency Medical Technician I

J. Sargeant Reynolds Early College Academy

The Early College Academy (ECA), a 60-credit, cohort-based program during 11- and 12-grade offered five mornings a week

from late-August through June on the Reynolds Downtown Campus, leading to an Associate of Science (A.S.) in Social Sciences degree.

BIO 101 - General Biology I (Course Number – DE03051-I; VA Assignment Code – N/A)

1 Credit

Focuses on foundations in cellular structure, metabolism, and genetics in an evolutionary context. Explores the core concepts of evolution; structure and function; information flow, storage and exchange; pathways and transformations of energy and matter; and systems biology. Emphasizes process of science, interdisciplinary approach, and relevance of biology to society. Part I of a two-course sequence.

Graduation Requirements: N/A.

Prerequisites: Completion of ENF 2 and MTE 1-3, if required by placement test. Satisfactory completion of Biology I.

BIO 102 - General Biology II (Course Number – DE03051-II; VA Assignment Code – N/A)

1 Credit

Focuses on diversity of life, anatomy and physiology of organisms, and ecosystem organization and processes in an evolutionary context. Explores the core concepts of evolution; structure and function; information flow, storage and exchange; pathways and transformations of energy and matter; and systems biology. Emphasizes process of science, interdisciplinary approach, and relevance of biology to society. Part II of a two-course sequence.

Graduation Requirements: N/A

Prerequisites: Satisfactory completion of BIO 101

ENG 111 - College Composition I (Course Number – DE01102-PartI; VA Assignment Code – N/A)

1 Credit

Introduces students to critical thinking and the fundamentals of academic writing.

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. ENG 111 has been designated as a "writing intensive" course according to standards developed by the English department.

Graduation Requirements: N/A

Prerequisites: Placement recommendation for ENG 111 or placement recommendation for co-requisites ENG 111 and ENF 3. ENG 111 is a prerequisite for ENG 112

ENG 112 - College Composition II (Course Number – DE01102-PartII; VA Assignment Code – N/A)

1 Credit

Continues to develop college writing with increased emphasis on critical essays, argumentation, and research, developing these competencies through the examination of a range of texts about the human experience. Requires students to locate, evaluate, integrate, and document sources and effectively edit for style and usage. ENG 112 has been designated as a "writing intensive" course according to standards developed by the English department.

Graduation Requirements: N/A

Prerequisites: Successful completion of ENG 111 or its equivalent and the ability to use word processing software; a grade of C or better in ENG 111 is recommended.

ENG 241 - Survey of American Literature I (Course Number – DE01055; VA Assignment Code – N/A)

1 Credit

Examines American literary works from pre-colonial times through the mid-nineteenth century, emphasizing the ideas and characteristics of our national literature. Involves critical reading and writing. The course has been designated as a "writing intensive" course according to standards developed by the English department.

Graduation Requirements: N/A

Prerequisites: ENG 112 or equivalent

ENG 245 - Survey of English (British) Literature II (Course Number – DE01056; VA Assignment Code – N/A)

1 Credit

Studies major English works from the Romantics to the present emphasizing the ideas and characteristics of the British literary tradition. Involves critical reading and writing. ENG 244 has been designated as a writing intensive course according to standards developed by the English department.

Graduation Requirements: N/A

Prerequisites: ENG 112 or equivalent

ENG 258 - Survey of African American Literature II (Course Number – DE01064; VA Assignment Code – N/A)

1 Credit

Examines selected works by African-American writers from the colonial period to the present more specifically from the early 20th century to the present. Involves critical reading and writing. ENG 258 has been designated as a "writing intensive" course according to standards developed by the English department.

Graduation Requirements: N/A

Prerequisites: ENG 112 or equivalent

ENG 275 - Women in Literature II (Course Number – DE01065; VA Assignment Code – N/A)

1 Credit

Examines literature by and about women from about 1900 to the present. Involves critical reading and writing. ENG 275 has been designated as a writing intensive course according to standards developed by the English department.

Graduation Requirements: N/A

Prerequisites: ENG 112 or equivalent

HIS 121 - United States History I (Course Number – DE04102-II; VA Assignment Code – N/A)

1 Credit

Surveys the United States history from its beginning to the present. HIS 121 and HIS 122 need not be taken in sequence. Part I of II.

Graduation Requirements: N/A

Prerequisites: Placement in ENG 111 or placement in co-requisites ENG 111 and ENF 3.

HIS 122 - United States History II (Course Number – DE04103-II; VA Assignment Code – N/A)

1 Credit

Surveys the United States history from its beginning to the present. HIS 121 and HIS 122 need not be taken in sequence. Part II of II.

Graduation Requirements: N/A

Prerequisites: Placement in ENG 111 or placement in co-requisites ENG 111 and ENF 3

HUM 260 - Survey of Twentieth-Century Culture (Course Number – DE04064; VA Assignment Code – N/A)

1 Credit

Explores literature, visual arts, philosophy, music, and history of our time from an interdisciplinary perspective.

Graduation Requirements: N/A

Prerequisites: None

CST 151 - Film Appreciation (Course Number - DE11056; VA Assignment Code - N/A)

1 Credit

Provides students with critical understanding of film through the discussion and viewing of motion pictures with emphasis upon the study of film history and the forms and functions of film. Students will develop skills to analyze the shared social, cultural, and historical influences of films and their context.

Graduation Requirements: N/A

Prerequisites: Eng 111

MUS 121 - Music in Society (Course Number -DE05116; VA Assignment Code - N/A)

1 Credit

Explores the language of music through an introduction to basic elements, forms and styles across time. Acquaints students with composers' lives and influential, creative individualities, discovering representative works and milestones in western society. Develops techniques for listening analytically and critically. Reviews historical development and significance of music within the context of evolving societal structures

Graduation Requirements: N/A

Prerequisites: None

ITE 152 - Introduction to Computer Applications (Course Number – DE10004; VA Assignment Code – N/A)

1 Credit

Covers computer concepts and internet skills, and uses a software suite, which includes word processing, spreadsheet, database, and presentation software to demonstrate skills. Introduces information literacy knowledge and skills.

Graduation Requirements: N/A

Prerequisites: Keyboarding skills

MTH 154 - Quantitative Reasoning (Course Number – DE02904; VA Assignment Code – N/A)

1 Credit

Presents topics in proportional reasoning, modeling, financial literacy, and validity studies (logic and set theory). Focuses 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. Replaces MTH 151, MTH 152, MTH 158, or MTH 170.

Graduation Requirements: N/A

Prerequisites: Competency in MTE 1-5 as demonstrated through placement or unit completion or equivalent or co-enrollment in MCR 4.

MTH 245 - Statistics I (Course Number – DE02201; VA Assignment Code – N/A)

1 Credit

Presents an overview of statistics, including descriptive statistics, elementary probability,

probability distributions, estimation, hypothesis testing, correlation, and linear regression. Credit will not be awarded for both MTH 155 - Statistical Reasoning and MTH 245 - Statistics I or equivalent.

Graduation Requirements: N/A

Prerequisites: Completion of MTH 154 or MTH 161 or equivalent with a grade of C or better.

PLS 135 - United States Government I
(Course Number – DE04151-PartI; VA Assignment Code – N/A)

1 Credit

Teaches structure, operation, and process of national, state, and local governments. Includes in-depth study of the three branches of the government and of public policy. PLS 211 and PLS 212 need not be taken in sequence. Part I of II.

Graduation Requirements: N/A

Prerequisites: Placement in ENG 111 or placement in co-requisites ENG 111 and ENF 3

PLS 136- United States Government II
(Course Number – DE04151-PartII; VA Assignment Code – N/A)

1 Credit

Teaches structure, operation, and process of national, state, and local governments. Includes in-depth study of the three branches of the government and of public policy. PLS 211 and 212 need not be taken in sequence. Part II of II.

Graduation Requirements: N/A

Prerequisites: Placement in ENG 111 or placement in co-requisites ENG 111 and ENF 3.

PSY 200 - Principles of Psychology
(Course Number – DE04254-IPart1; VA Assignment Code – N/A)

1 Credit

Surveys the basic concepts of psychology. Covers the scientific study of behavior and mental processes, research methods and measurement, theoretical perspectives, and application. Includes biological bases of behavior, learning, social interactions, memory, and personality; and other topics, such as sensation, perception, consciousness, thinking, intelligence,

language, motivation, emotion, health, development, psychological disorders, and therapy.

Graduation Requirements: N/A

Prerequisites: Placement in ENG 111 or placement in co-requisites ENG 111 and ENF 3

PSY 230 - Developmental Psychology
(Course Number – DE04254-IIPart2; VA Assignment Code – N/A)

1 Credit

Studies the development of the individual from conception to death. Follows a life-span perspective on the development of the person's physical, cognitive, and psycho-social growth.

Graduation Requirements: N/A

Prerequisites: Placement in ENG 111 or placement in co-requisites ENG 111 and ENF 3.

SDV 100 - College Success Skills (Course Number – DE04989; VA Assignment Code – N/A)

1 Credit

Assists students in transition to college. Provides overviews of college policies, procedures, and curricular offerings. Encourages contacts with other students and staff. Assists students toward college success through information regarding effective study habits, career and academic planning, and other college resources available to students. Strongly recommended for beginning students. Required for Reynolds graduation.

Graduation Requirements: N/A

Prerequisites: None

SPA 101 - Beginning Spanish I (Course Number – DE24052-Part1; VA Assignment Code – N/A) **1 Credit**

Introduces understanding, speaking, reading, and writing skills and emphasizes basic Spanish sentence structure. Incorporates exposure to the arts, culture, and literature of the areas of the world where Spanish is spoken. Part I of II. May include an additional hour of oral drill and practice per week.

Graduation Requirements: N/A

Prerequisites: None

SPA 102 - Beginning Spanish II (Course Number – DE24052-Part2; VA Assignment Code – N/A)

1 Credit

Introduces understanding, speaking, reading, and writing skills and emphasizes basic Spanish sentence structure.

Incorporates exposure to the arts, culture, and literature of the areas of the world where Spanish is spoken. Part II of II. May include an additional hour of oral drill and practice per week.

Graduation Requirements: NA

Prerequisites: SPA 101 or its equivalent.

English Language Arts

English - Grade 9 (Course Number – 01001; VA Assignment Code – 1130)

1 Credit

In English 9, students will continue to develop as readers and writers by utilizing Virginia's 5 C's: Critical Thinking, Collaboration, Communication, Creative Thinking, and Citizenship skills. There will be an emphasis on reading comprehension by comparing fiction and nonfiction texts from a global perspective. In fiction texts, students will apply knowledge of literary terms, analyze various genres, and develop an increased focus on nonfiction reading, where students will make inferences and draw conclusions using explicit and implied textual evidence. Students will use the recursive writing process while writing in various forms, emphasizing persuasion, using evidence from credible sources and organizational patterns to match the intended audience and purpose effectively. These critical-thinking skills are foundational to technical reading and writing and are transferable across all content areas, and are essential for future post-secondary education and workplace environments.

Graduation Requirements: This course is one of the four required courses needed to fulfill the English standard credits.

Prerequisites: None

English - Grade 9 Honors (Course Number – H01001; VA Assignment Code – H1130)
1 Credit

While English 9 Honors will focus on the same content as the English 9 course, it is distinguished by a more rigorous study of literature. Students will move at an accelerated pace, cover a greater breadth and depth of textual study, and require more independent work. This course is designed to prepare students to take Advanced Placement English during their junior and senior years. Accordingly, students will synthesize information from a variety of sources as they read and write. The honors level final exam will parallel the form of an AP test.

Graduation Requirements: This course is one of the four required courses needed to fulfill the English standard credits.

Prerequisites: None

English - Grade 10 (Course Number – 01002; VA Assignment Code – 1140)

1 Credit

In English 10, there is a sustained emphasis on reading comprehension by comparing fiction and nonfiction texts. Students will analyze the cultural and social function and universal themes of fictional texts from different cultures. They will analyze and synthesize information from nonfiction texts to solve problems, answer questions, and generate new knowledge. Students will use the recursive writing process while writing in various forms, emphasizing analysis while synthesizing evidence from credible sources and using organizational patterns to match the intended audience and purpose effectively. Students will be expected to have greater control over the conventions of writing and write/revise to a standard acceptable both in the workplace and postsecondary education through the utilization of Virginia's 5 C's: Critical Thinking, Collaboration, Communication, Creative Thinking, and Citizenship skills.

Graduation Requirements: This course is one of the four required courses needed to fulfill the English standard credits.

Prerequisites: English - Grade 9

**English - Grade 10 Honors (Course Number – H01002; VA Assignment Code – H1140)
1 Credit (Eligible for Verified Credit)**

While Honors English 10 will focus on the same content as the English 10 course, it is distinguished by a more rigorous study of global literature. Students will move at an accelerated pace, cover a greater breadth and depth of textual study, and require more independent work. This course is designed to prepare students to take Advanced Placement Language and Composition during their junior year and Advanced Placement Literature and Composition during their senior year. Accordingly, students will synthesize information from a variety of sources as they read and write. The honors level final exam will parallel the form of an AP test.

Graduation Requirements: This course is one of the four required courses needed to fulfill the English standard credits.

Prerequisites: English - Grade 9

**English 10 - AP Seminar Grade 10 (Course Number - AP01003; VA Assignment Code - N/A) (Pending Approval)
1 Credit**

English 10 AP Seminar is taught in the AP Seminar style. English 10: AP Seminar provides students with a unique instructional framework. The course helps students build a robust foundation for critical and transferable research skills: investigation, collaboration, writing, and presentation. Students learn to synthesize information from multiple sources, develop their perspectives in research-based written essays, and design and deliver oral and visual presentations individually and as a team. The course aims to equip students with the power to analyze and evaluate information accurately and to craft and communicate evidence-based arguments. Students in English 10: AP Seminar explore the world around them to better understand how it all works. Doing real-world investigations and offering research-based solutions produces critical thinkers who can apply what they have learned as they bridge

to other AP courses and become productive stewards of their community. English 10: AP Seminar fulfills a core course graduation requirement.

Graduation Requirements: English 10: AP Seminar -English credit towards graduation

Prerequisites: English - Grade 9

**English - Grade 11 (Course Number – 01003; VA Assignment Code – 1150)
1 Credit (Eligible for a Verified Credit in Reading and Writing)**

In English 11, there will be a sustained emphasis on reading comprehension of fiction and nonfiction texts, concentrating on American literature, history, and culture. Students will conduct comparative analyses of multiple texts that address the same topic to determine how authors reach similar or different conclusions. Students will examine and analyze fiction texts by American authors describing other cultures' contributions and identifying prevalent themes and characterizations. Students will continue to develop as writers using the recursive writing process while writing in various forms with an emphasis on argumentation. They will write for multiple purposes and audiences to create focused, organized, and coherent writing. Students will be expected to have greater control over the conventions of writing and write/revise to a standard acceptable both in the workplace and postsecondary education through the utilization of Virginia's 5 C's: Critical Thinking, Collaboration, Communication, Creative Thinking, and Citizenship skills.

Graduation Requirements: This course is one of the four required courses needed to fulfill the English standard credits.

Prerequisites: English - Grade 10

**English - Grade 12 (Course Number – 01004; VA Assignment Code – 1160)
1 Credit (Eligible for Verified Credit)**

In English 12, students will continue to focus on reading comprehension of fiction and nonfiction texts by reviewing multiple texts to identify and evaluate resources to make decisions and solve problems. Students will examine and analyze fiction texts by British

authors, evaluating how authors use key elements to contribute to meaning and interpreting how themes are connected across texts. Students will use the recursive writing process while writing in various forms with an emphasis on research and will write for multiple purposes and audiences to create focused, organized, and coherent writing. By utilizing Virginia's 5 Cs: Critical Thinking, Collaboration, Communication, Creative Thinking, and Citizenship skills, students will be expected to have greater control over the conventions of writing and write/revise to a standard acceptable both in the workplace and in postsecondary education.

Graduation Requirements: This course is one of the four required courses needed to fulfill the English standard credits.

Prerequisites: English - Grade 11 or equivalent (AP Language)

AP English Language & Composition (Course Number – AP01005; VA Assignment Code – 1196)

1 Credit (Eligible for Verified Credit)

A college level course providing students with opportunities to write about multiple subjects from a variety of disciplines and to demonstrate an awareness of audience and purpose. Students will move beyond programmatic responses and are encouraged to focus on content, purpose and audience in the organization of their writing. Students will become acquainted with a wide variety of styles from many disciplines and gain understanding of the connections between writing and reading. Students will be asked to analyze how graphics and visual images in texts relate to written texts and serve as alternative forms of text. Also, the informed use of research materials and the ability to synthesize varied sources (to evaluate, use, and cite sources) will be integral parts of the course.

Graduation Requirements: This course may be used or counted as one of the four required courses needed to fulfill the English standard credits.

Prerequisites: None

AP English Literature & Composition (Course Number – AP01006; VA Assignment Code – 1195)

1 Credit

A college level course that includes both a wide and a deep reading of works from various genres and periods, concentrating on works of recognized literary merit. Students will read to understand a work's complexity, to absorb its richness of meaning, and to analyze how that meaning is shared through its details. In addition, students will reflect on the social and historical values texts reflect. Students will also write about literary works by explaining judgments about artistry, social and cultural values, and how the details of the work justify the judgments. Students will learn how to make careful observations of textual details, establish connections among their observations, and make inferences leading to an interpretive conclusion about the meaning and value of a piece of writing. Students enrolled are expected to take the AP Exam.

Graduation Requirements: This course may be used or counted as one of the four required courses needed to fulfill the English standard credits.

Prerequisites: None

AP Research (Course Number – AP22112; VA Assignment Code – N/A)

1 Credit

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The AP Research course is an inquiry-based course that aims to engage students in scholarly research with the end goal of making a unique contribution to that conversation.

Students are encouraged to investigate real-world topics of interest.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: AP Seminar

**AP Seminar (Course Number – AP22110;
VA Assignment Code – N/A)**

1 Credit

AP Seminar is a foundational capstone course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts. Students also practice listening to and viewing speeches, broadcasts, and personal accounts of artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

**Creative Writing (Course Number – 01104;
VA Assignment Code – 1171)**

1 Credit

Creative Writing offers students the opportunity to develop their expressive writing abilities as well as develop and improve their technique and individual style in poetry, short story, drama, essays, other forms of prose, and vocabulary development. The emphasis of the course is on writing; however, students may study exemplary representations and authors to obtain a fuller appreciation of the form and craft.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Students enrolled in this course will need elevated reading and writing skills to be successful.

**Public Speaking (Course Number -
B01151):**

1 Credit

This course is designed to teach students research, critical thinking, construction of logical arguments, and assessment of audience, self-esteem, and engagement in world events. These skills build better students, college candidates, employees, and citizens. Students will be introduced to the ways in which people communicate interpersonally and interpersonally with attention given to active listening skills. Students will learn how to write, revise, and deliver speeches. Students will also have opportunities to present in a variety of different settings, critique themselves and others, and analyze the construction of strong examples of oration. By practicing skilled research, concise writing, and strong deliberate rhetoric, the students will share their ability to make arguments and defend their ideas, which is debate. Students build their core competencies in the “5 C’s of 21st Century Skills” as directed by the Virginia Department of Education: Critical Thinking, Creating Thinking, Collaboration, Communication, and Citizenship. The students will learn and apply many of the English Standards of Learning.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

**Strategic Reading (Course Number –
01066; VA Assignment Code – 1515)**

1 Credit

The Strategic Reading course offers students the opportunity to develop basic skills needed for reading grade level materials. This course will offer additional direct teaching and learning opportunities. The focused topics include fluency, comprehension and vocabulary building skills through the use of fiction and non-fiction material and critical reading to enhance understanding. Texts

across various contents at both independent and on-grade levels will be used to focus students' strategy use for independent and grade-level reading success. A technology-rich blended learning reading intervention program will be used to support the growth of students in this course to help students and teachers to monitor progress. It also customizes instruction to meet the diverse needs of all learners.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Students are recommended for placement and continuation based on multiple criteria including results from previous standardized tests, diagnostic assessments, IEPs and on-going quarterly data with teacher observation evidence of reading skills.

Foundations of Literacy I (Course Number-B01067-I) VA Assignment Code-N/A)

1 Credit

This course is designed for students who struggle with basic word recognition skills required for grade level fluency and reading comprehension. Teachers use an explicit, systematic, and cumulative approach to teaching foundational reading skills including phonemic awareness, phonics, and syllabication. Students learn how to navigate the English language from the smallest unit of sound to the most complex units of sound (morphology) and apply those skills on a daily basis in connected text. Foundations of Literacy CAN exist in two tracks - GenEd and ExEd, and even LIEP. Based on common achievement gaps and collaboration with the Secondary Reading Intervention Specialist, schools may use either SYSTEM 44 or LANGUAGE! Live for this course.

Graduation Requirements: N/A

Prerequisites: Students are recommended for placement and continuation based on multiple criteria including current Lexile and comprehension levels, diagnostic assessments, IEPs and on-going quarterly data that supports evidence of improved reading skills.

Foundations of Literacy II (Course Number-B01067-II)

1 Credit

This course is designed for students who struggle with more advanced word recognition skills, such as decoding multisyllabic words that impact grade level fluency and reading comprehension. Teachers use an explicit, systematic, and cumulative approach to teaching word reading skills including advanced phonemic awareness, syllabication and morphology. Students learn how to navigate the Latin and Greek layers of our English language and apply those skills on a daily basis to connected text.

Graduation Requirements: N/A

Prerequisites: Students are recommended for placement and continuation based on multiple criteria including current Lexile and comprehension levels, diagnostic assessments, IEPs and on-going quarterly data that supports evidence of improved reading skills. Completion of Foundations of Literacy I.

Foundations of Literacy III (Course Number – B01067-III; VA Assignment Code – N/A)

1 Credit

This course is designed to provide direct, explicit and intensive reading instruction to students who are reading two or more years below grade level. Basic objectives of this reading course are focused on closing the gap between the student's present level of performance and the level of performance needed to successfully access the general education curriculum. Instructional targets consist of increasing students' decoding, fluency, and comprehension skills when reading fiction and nonfiction text.

Graduation Requirements: N/A

Prerequisites: Students are recommended for placement and continuation based on multiple criteria including current Lexile and comprehension levels, diagnostic assessments, IEPs and on-going quarterly data that supports evidence of improved reading skills. Completion of Foundations of Literacy II

Foundations of Literacy IV (Course Number – B01067-IV; VA Assignment Code – N/A)

1 Credit

This course is designed to offer continued instruction in reading comprehension skills to assist students in closing the gap between their present level of performance and the level of performance needed to successfully access the general education curriculum. Emphasis will be placed on reading comprehension and basic composition.

Graduation Requirements: N/A

Prerequisites: Students are recommended for placement and continuation based on multiple criteria including current Lexile and comprehension levels, diagnostic assessments, IEPs and on-going quarterly data that supports evidence of improved reading skills. Completion of Foundations of Literacy III.

English Learners

Developmental Reading for ELs (Course Number – 01996; VA Assignment Code – N/A)

1 Credit

Reading intervention block specifically for students classified as SLIFE (Students with Limited or Interrupted Formal Education). This course offers students the opportunity to develop basic skills needed for reading grade level materials. Students engage in tasks that promote academic language development. The focused topics include fluency, comprehension, and vocabulary building skills primarily through the use of non-fiction material and critical reading to enhance understanding. Texts from across the various contents at both independent and on-grade levels will be used to focus students' strategy use for independent and grade-level reading success. A blended learning reading intervention program will be used to support the growth of students in this course. This course will be taught by an endorsed LIEP teacher.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: SLIFE and EL designation

English as a Second Language I (Course Number – 01008-I; VA Assignment Code – 5710)

1 Credit

Multilingual learners in 9th grade develop their English language proficiency and English literacy skills by engaging in academic language development in the four domains of reading, writing, listening and speaking. This course is aligned to the WIDA English language development (ELD) standards and the grade-level Standards of Learning of Math, English, Science, and History & Social Science.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit (one credit per completed course in the related sequence).

Prerequisites: 9th grade and EL designation

English as a Second Language II (Course Number – 01008-II; VA Assignment Code – 5720)

1 Credit

Multilingual learners in 10th grade develop their English language proficiency and English literacy skills by engaging in academic language development in the four domains of reading, writing, listening and speaking. This course is aligned to the WIDA English language development (ELD) standards and the grade-level Standards of Learning of Math, English, Science, and History & Social Science.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit (one credit per completed course in the related sequence).

Prerequisites: 10th grade and EL designation

English as a Second Language III (Course Number – 01008-III; VA Assignment Code – 5730)

1 Credit

Multilingual learners in 11th grade develop their English language proficiency and English literacy skills by engaging in academic language development in the four domains of reading, writing, listening and speaking. This course is aligned to the WIDA English language development (ELD) standards and the grade-level Standards of Learning of

Math, English, Science, and History & Social Science.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit (one credit per completed course in the related sequence).

Prerequisites: 11th grade and EL designation

English as a Second Language IV (Course Number – 01008-IV; VA Assignment Code – 5731)

1 Credit

Multilingual learners in 12th grade develop their English language proficiency and English literacy skills by engaging in academic language development in the four domains of reading, writing, listening and speaking. This course is aligned to the WIDA English language development (ELD) standards and the grade-level Standards of Learning of Math, English, Science, and History & Social Science.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit (one credit per completed course in the related sequence)

Prerequisites: 12th grade and EL designation

Fine Arts

Beginning Band (Course Number – 05101-I; VA Assignment Code – 9232)

1 Credit

This course is designed for early training in band/instrumental literature. Emphasis is on the basic fundamentals of music reading, breathing technique, and reading and performing from a musical score in a variety of styles. This course will help students develop techniques for playing brass, woodwind, and percussion instruments and their ability to perform a variety of band literature. Students will have experiences in creating and responding to music of different styles and genres. Participation in scheduled performances is required.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: None

Intermediate Band (Course Number – 05101-II; VA Assignment Code – 9233)

1 Credit

This course is designed to give greater attention to band/instrumental performance skills and techniques. Students will enhance their technique for intermediate level playing of brass, woodwind, and percussion instruments. More complex techniques and skills are introduced and developed in the areas of sight-reading, performance and auditions. Musical note reading is refined and music of higher-grade levels is mastered (music grades II-III). Students will have experiences in creating and responding to music of different styles and genres for music grades II-III. Participation in scheduled performances is required.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: Beginning Band

Advanced Band (Course Number – 05101-III; VA Assignment Code – 9234)

1 Credit

This course continues in sequence after Beginning and Intermediate Band. Students will enhance their technique and skills for advanced level playing of brass, woodwind, and percussion instruments. High level thinking skills are reinforced by student's participation in analyzing and critiquing music for performances. Advanced musical technique and skills are developed in the areas of sight-reading, rehearsal, performance and auditions. Students will be expected to audition for local and district band ensembles. Musical note reading is refined, and music of advanced grade levels is performed (music grades III-IV). Students will have experiences in creating and responding to music of different styles and genres for music grades III-IV. Participation in scheduled performances is required.

Graduation Requirements: This course meets the graduation credit requirement for Fine Arts.

Prerequisites: Intermediate Band

Artist Band (Course Number – 05101-IV; VA Assignment Code – 9244)

1 Credit

This course continues in sequence after Advanced Band. Students will be proficient in technique and skills for high level performance of brass, woodwind, and percussion instruments. Music analysis and critique are reinforced, and high-level thinking is emphasized through performances. Performances are required for this ensemble. Musical note reading is refined, and music grades III-IV is performed. Artist level technique and skills become proficient in the areas of sight-reading, rehearsal, performances, and auditions. Students will be required to audition for local and district band ensembles. Students will have experiences in creating and responding to music of different styles and genres for music grades III-IV. Students will participate in All-City band and VBODA district assessment.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: Advanced Band

Beginning Chorus (Course Number – 05110-I; VA Assignment Code – 9260)

1 Credit

This course is designed to help the students develop the skills necessary for improved vocal ability and technique. It prepares a student for participation in a vocal ensemble. Emphasis is placed on correct posture, breathing, vocal techniques, diction and intonation. Students will also concentrate on sight singing. Public performances are required. Students will have experiences in creating and responding to music of different styles and genres.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: None

Intermediate Chorus (Course Number – 05110-II; VA Assignment Code – 9285)

1 Credit

This course is designed to give greater attention to vocal production and the interpretation of traditional and contemporary literature. Emphasis is placed on improving vocal quality, vocal techniques, and sight singing ability. Participation in scheduled

school and public performances are required. Successful completion of high school beginning chorus or middle school advanced chorus is necessary. Students will have experiences in creating and responding to music of different styles and genres.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: Beginning Chorus

Advanced Chorus (Course Number – 05110-III; VA Assignment Code – 9289)

1 Credit

This course is a continuation of the choral studies from intermediate chorus. It provides students with many opportunities to refine their choral skills to a high level of performance. It is the major vocal performing group. This course also provides an in-depth musical experience which will challenge those students who have achieved a level of development commensurate with requirements of performance at the advanced level. Participation in scheduled public performances and All-City chorus is required. Continued development of sight-reading skills is emphasized. Students will have experiences in creating and responding to music of different styles and genres.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: Intermediate Chorus

Artist Chorus (Course Number – 05110-IV; VA Assignment Code – 9290)

1 Credit

This course provides music instruction for students who will perform in All-City Choir and other advanced choirs, as well as local, state, and national ensembles. Participation in this course will provide skills and technique in the area of repertoire building, music theory, and performance development. Public performances are required to enhance the learning process. Students will participate in VBODA district assessment. Students will have experiences in creating and responding to music of different styles and genres. Participation in scheduled performances is required.

Graduation Requirements: This course meets the graduation requirements for Fine Arts
Prerequisites: Advanced Chorus

Beginning Orchestra (Course Number – 05104-I; VA Assignment Code – 9237)
1 Credit

This course is designed to help develop students' technique for playing a string instrument in the orchestra and an introduction to early training in orchestral literature. Emphasis is on the basic fundamentals of music reading, bowing technique, and reading and performing from a musical score in a variety of styles. This course will help students develop techniques for playing violin, viola, cello and bass instruments and their ability to perform a variety of orchestral literature. Students will have experiences in creating and responding to music of different styles and genres. Participation in scheduled performances is required.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.
Prerequisites: None

Intermediate Orchestra (Course Number – 05104-II; VA Assignment Code – 9285)
1 Credit

This course is designed to provide intermediate level music instruction for students who perform in the Orchestra on stringed instruments. Attention is given to the understanding of form and style in the musical periods. Technical concentration on scales, etudes, and intermediate graded music literature is included. Daily practice outside of class is required. Scheduled school related and public performances are required. Students will have experiences in creating and responding to music of different styles and genres.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.
Prerequisites: Beginning Orchestra

Advanced Orchestra (Course Number – 05104-III; VA Assignment Code – 9239)
1 Credit

This course is designed to continue in technical sequence from Intermediate Orchestra and offers an advanced level of orchestral participation. An examination of early European through contemporary literature will be explored. Position playing for strings, the use of vibrato, mastery of bowing styles, interpretation of standard symphonic literature, and refinement of large ensemble playing for all families of instruments are qualities of extreme value. Daily practice outside of class is required. Scheduled school related and public performances are required. Participation in All-City Orchestra is required. Students will have experiences in creating and responding to music of different styles and genres.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.
Prerequisites: Beginning Orchestra, Intermediate Orchestra

Artist Orchestra (Course Number – 05104-IV; VA Assignment Code – 9242)
1 Credit

This course is designed to continue in technical sequence from Advanced Orchestra and offers an advanced level of orchestral participation. An examination of advanced literature will be explored (Grades III-IV). Advanced position playing for strings (2nd, 3rd, 4th & 5th position), the use of vibrato, master of bowing technique and skills will be worked on intensely. Interpretation of standard symphonic literature, and the refinement of large ensemble playing for all families of instruments are qualities of extreme value and will be explored. Audition preparation will be a focus as these students will participate in auditions for local and state ensembles. All-City Orchestra participation is required. Regional Orchestra auditions are required and participation in VBODA district assessment is required.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.
Prerequisites: Advanced Orchestra

AP Art History (Course Number – AP05153; VA Assignment Code – 9151)
1 Credit

AP Art History is designed to parallel college-level Art History courses, AP Art History courses provide the opportunity for students to critically examine and respond to works of art within their historical and cultural contexts. In covering the art and movements of several centuries not necessarily in chronological order, students learn to identify different styles, techniques, media and influences. Students formulate and articulate their reactions to various kinds of artwork to understand and appreciate themselves, others, and the world around them.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: None

AP Music Theory (Course Number – AP05114; VA Assignment Code – N/A)

1 Credit

AP Music Theory courses are designed to be the equivalent of a first-year music theory college course as specified by the College Board. AP Music Theory develops students' understanding of musical structure and compositional procedures. Usually intended for students who already possess performance-level skills, AP Music Theory courses extend and build upon students' knowledge of intervals, scales, chords, metric/rhythmic patterns, and the ways they interact in a composition. Musical notation, analysis, composition, and aural skills are important components of the course.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: Beginning Band, Intermediate Band

AP Studio Art – Drawing Portfolio (Course Number – AP05172; VA Assignment Code – 9150)

1 Credit

This is an advanced placement (AP) course that is equivalent to an introductory college course. The Advanced Placement Studio Program enables highly motivated students to do college-level work in studio art while still in high school. AP Studio Art: Drawing Portfolio is not based on written examination; instead, it is required for students to submit

portfolios to the College Board for evaluation at the end of the school year. Course content is developed according to the College Board's AP curriculum.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: Suggested: Art I/Art II

AP Studio Art – Three Dimensional (Course Number – AP05175; VA Assignment Code – 9149)

1 Credit

AP Studio Art – Three Dimensional is designed for students with a professional or academic interest in three-dimensional art. This course focuses on a variety of concepts and approaches in 3-D design and creation, enabling students to demonstrate a range of abilities and versatility with media, technique, problem solving, and scope. They can demonstrate such conceptual variety through the use of one or several media. AP Studio Art: Three Dimensional is not based on written examination; instead, it is required for students to submit portfolios to the College Board for evaluation at the end of the school year. Course content is developed according to the College Board's AP curriculum.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: Suggested: Art I/Art II

AP Studio Art – Two Dimensional (Course Number – AP05174; VA Assignment Code – 9148)

1 Credit

AP Studio Art – Two Dimensional is designed for students with a professional or academic interest in two-dimensional art. This course focuses on a variety of concepts and approaches in drawing and 2-D design, enabling students to demonstrate a range of abilities and versatility with media, technique, problem solving, and scope. Such conceptual variety can be demonstrated through the use of one or several media. AP Studio Art: Two Dimensional is not based on written examination; instead, it is required for students to submit portfolios to the College Board for evaluation at the end of the school

year. Course content is developed according to the College Board's AP curriculum.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: Art I/Art II

Art I/Art Foundations (Course Number – 05154-I; VA Assignment Code – 9120)

1 Credit

This course provides students with exploration in art forms (e.g. drawing, painting, two- and three-dimensional design, and sculpture) and to create individual works of art. Initial courses emphasize observations, interpretation of the visual environment, visual communication, imagination, and symbolism. Courses cover the language, materials, media, and processes of a particular art form and the design elements used. Advanced courses encourage students to refine their skills while also developing their own artistic styles following and breaking from traditional conventions. Courses may also include the study of major artists, art movements, and styles.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: None

Art II/Intermediate (Course Number – 05154-II; VA Assignment Code – 9130)

1 Credit

This course is designed to develop students' abilities for visual self-expression. The course gives depth to the students' understanding of art as they explore the visual world, both natural and man-made, enabling them to refine their own concepts and skills. Emphasis is on drawing and painting, as well as the development of technical skills in a variety of media. The course examines historical and contemporary art expression across culture and ethnic groups. The course exposes students to methods of evaluating their art work as well as the work of others.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: Art I/Art Foundations

Art III/Advanced Intermediate (Course Number – 05154-III; VA Assignment Code – 9140)

1 Credit

This course is designed to give students opportunities to broaden and strengthen the skills, knowledge, and attitudes acquired in Art I/Art Foundations and Art II/Intermediate. The course focuses on the students' interests and ability to critically analyze works of art and to respond aesthetically to man-made and natural objects. Use of technology in art and individual career planning is emphasized in the course.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: Art II/Intermediate

Art IV/Advanced (Course Number – 05154-IV; VA Assignment Code – 9145)

1 Credit

This course provides an in-depth study and personal development in one or more areas of the visual arts. These include drawing and painting, crafts, graphics, sculpture, architecture, and commercial design as well as other areas determined by the needs and skills of the individual art student. The student is encouraged to develop a portfolio of artwork.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: Art III/Advanced Intermediate

Craft Design I (course Number - 05165-I; VA Assignment Code - N/A)

1 Credit

This course is designed for students to explore a variety of three dimensional media and techniques. Projects produced will demonstrate appropriate use of the elements and principles of design. A high degree of craftsmanship is emphasized. The students will maintain a journal/sketchbook from which ideas and designs will be developed. The influences of artists from contemporary and historical time periods will be explored. Students will learn to distinguish between decorative and utilitarian crafts.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: None

Crafts Design II (Course Number - 05165-II; VA Assignment Code - N/A) (Course Offer Pending Pilot @ John Marshall ONLY)

1 Credit

Crafts II students will continue to develop technical skills in three-dimensional media while with an emphasis on voice and choice. Students taking Crafts II will focus on four areas of studies that include textiles, ceramics, paper/mixed media, and glass. Each of these concentration areas will be studied for a quarter of the semester using the 4x4 schedule. Students will explore the influences of crafts from historical time periods such as the Arts and Crafts movement of the late 19th century as well as contemporary work. Students will maintain a sketchbook/ journal for planning and as a resource in the art-making process while also researching specific craft artists in their areas of interest.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: Craft Design I

Art V/Portfolio Preparation (Course Number – 05170; VA Assignment Code – 9147)

1 Credit

Students in the portfolio preparation course will do college-level work in studio art. All work in this course will be part of their portfolio. Students will work intensely on development and mastery in one or more areas of visual arts. The areas include: painting, crafts, graphics, sculpture, architecture, and commercial design, as well as other areas determined by the needs and skills of the individual students. Students submit portfolios for evaluation at the end of the school year.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: Art IV/Advanced

Computer Art Graphics I

Description: Computer Art Graphics I-

(Course Number - 05169-I; VA Assignment Code - NA) (Application for Course is Pending)

1 Credit

Digital Imaging courses explore the creative and conceptual aspects of designing and producing digital imagery, graphics, and photography. Students study the techniques, genres, and styles from multiple mediums and forms. Topics may include aesthetic meaning, appreciation and analysis; composing, capturing, processing, and programming of imagery and graphical information; their transmission, distribution, and marketing; and contextual, cultural and historical aspects and considerations.

Graduation Requirements: This course meets the graduation requirements for Fine Arts

Dance Technique: Dance I (Course Number – 05001-I; VA Assignment Code – N/A)

1 Credit

Students experience dance as an art form that develops critical thinking skills, discipline, collaboration, creativity, and physical skills that safely facilitate the execution of dance movement. Students enrich their views of society, themselves, and other cultures through the study of dance history. This course is an introduction to technical dance.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: None

Dance Technique: Dance II (Course Number – 05001-II; VA Assignment Code – N/A)

1 Credit

Students experience dance as an art form that develops critical thinking skills, discipline, collaboration, creativity, and physical skills that safely facilitates the execution of dance movement. Students enrich their views of society, themselves, and other cultures through the study of dance history. This is a continuation from Dance Technique: Dance I. This course works on technique of each dance discipline, and prepares students for further dance study and nurtures a lifelong appreciation of dance as an expressive and accessible art form.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.
Prerequisites: Dance Technique: Dance I

Dance Technique: Dance III (Course Number – 05001-III; VA Assignment Code – N/A)

1 Credit

Students experience dance as an art form that develops critical thinking skills, discipline, collaboration, creativity, and physical skills that safely facilitate the execution of dance movement. This course is an advanced course in dance technique and performance.

Students will be required to choreograph short dances and learn audition technique and skills.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.
Prerequisites: Dance Technique: Dance II

Dance Technique: Dance IV (Course Number – 05001-IV; VA Assignment Code – N/A)

1 Credit

Students experience dance as an art form that develops critical thinking skills, discipline, collaboration, creativity, and physical skills that safely facilitate the execution of dance movement. This course is an intensive course in dance technique and performance.

Students will be required to choreograph a production for an ensemble. Students will also prepare and participate in auditions in local, regional, and state dance competitions. School and public performances are required.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.
Prerequisites: Dance Technique: Dance III

Guitar I (Course Number – 05108-I; VA Assignment Code – 9245)

1 Credit

Guitar provides students an introduction to, and an opportunity to refine the fundamentals of, music and guitar literature and techniques, such as strumming and chords, as well as offering instruction in more advanced techniques. The course may

include bass and other plucked string instruments. Formal and informal performances are typically included as well as experiences in creating and responding to music.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.
Prerequisites: None

Guitar II (Course Number – 05108-II; VA Assignment Code – 9247)

1 Credit

Guitar II provides continuous instruction on acoustic guitar. Students become increasingly familiar with its history and technology. They demonstrate different positions, right-hand and left-hand techniques, tone production, intonation, and chord structures. Students read and perform music of varying styles and levels of difficulty. They describe, respond to, interpret, analyze, and evaluate works of music. Students improvise and create variations of simple melodies, and they have opportunities to perform in small ensembles. They compare and contrast career options in music.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.
Prerequisites: Guitar I

Theatre I/Introduction to Theatre (Course Number – 05052; VA Assignment Code – 1410)

1 Credit

This course is designed to provide a general introduction to the dramatic arts including basic acting skills, dramatic structure, and visual elements of theatre production and appreciation of a variety of dramatic styles. This course should be used as a prerequisite for other theatre courses.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.
Prerequisites: None

Theater II/Dramatic Literature & Theater History (Course Number – 05059; VA Assignment Code – 1420)

1 Credit

This course is designed to provide an intermediate level of dramatic arts including intermediate technical acting skills, dramatic structure, and visual elements of theatre production and appreciation of a variety of dramatic styles.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: Theatre I/Introduction to Theatre

Theatre III/Intermediate Acting & Playwriting (Course Number – 05058; VA Assignment Code – 1423)

1 Credit

This course will emphasize different acting techniques, character analysis, scene study, and performances. Students will have opportunities to create, read, view, perform in and respond to plays. Participation in productions is required.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: Theatre II/Intermediate Theatre

Theatre IV/Advanced Acting & Directing (Course Number – 05057; VA Assignment Code – 1426)

1 Credit

This course is designed to provide advanced instruction in acting, directing, and theatre production. This elective course includes script analysis, design, and application of technical elements, and stage management. Students will plan, rehearse, and direct a theatrical production. Production performances are required.

Graduation Requirements: This course meets the graduation requirements for Fine Arts.

Prerequisites: Theatre III/Intermediate Acting & Playwriting

Health and Physical Education

Advanced Physical Education I: Individual/Dual Sports/Recreation (Course Number – 08003; VA Assignment Code – 7640)

1 Credit

This advanced physical education elective exposes students to physical activities for in-depth study and participation (aerobics, cycling, dance, individual sports & fitness, outdoor pursuits, team sports, weight training and conditioning).

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Health & PE - Grade 9 (not Driver Education), Health & PE - Grade 10

Advanced Physical Education II: Weight Training (Course Number – 08009; VA Assignment Code – 7650)

1 Credit

Students will work as a group and independently to design and implement a health enhancing personal fitness program complete with personal fitness goals. The students should also be able to use available technology and resources to complete lifetime fitness plans.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Health & PE - Grade 9 (not Driver Education), Health & PE - Grade 10

Recreation Sports (Course Number - 08004; VA Assignment Code - N/A)

1 Credit

This course is designed to teach a variety of recreational activities, such as bowling, badminton, tennis, pickleball, swimming, yoga, and an opportunity for career pathways through sport officiating, with an emphasis on rules, strategies, and game modifications. Students will continue to build upon wellness activities and concepts introduced in HPE 9 and 10. This program is designed to provide a well-rounded experience in various recreational sports, promoting physical fitness, teamwork, and sportsmanship. It offers a blend of indoor and outdoor activities to keep students engaged and enthusiastic about physical education.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Health & PE - Grade 9 (not Driver Education), Health & PE - Grade 10

Driver Education - Classroom Instruction Only (Course Number – 08151; VA Assignment Code – 7015)

Pass/Fail Grade

An elective course consisting of two phases: theory and optional behind-the-wheel training. Students learn attitudes and natural laws which affect driving. Mental and physical characteristics which affect driving are also discussed. The effects of alcohol and other drugs as well as the differences in a driver's ability to perceive, react, and stop an automobile are covered. Students receive instruction on the safety equipment of the automobile, buying and selling a car, state laws and their effects on driving, motorcycle safety and careers in the driving profession.

Effective July 22, 2022, State Legislature SB 78 requires all approved public, private, and commercial driver training schools to add a 90-minute parent/student component to the classroom driver education curriculum.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Health & PE - Grade 9 (not Driver Education) (Course Number – V08052; VA Assignment Code – 7300)

1 Credit

The student will learn to perform all basic movement skills and demonstrate competence in self-selected, lifetime, skill-related physical activities from individual, dual, or team game/sport, dance, and recreational pursuit activities categories. Students in grade nine integrate a variety of health concepts, skills, and behaviors to plan for their personal, lifelong health goals. These include awareness and consequences of risky behaviors, disease prevention, overall wellness and good Samaritan CPR, first aid and AED training.

Graduation Requirements: This course is required to fulfill the Health & Physical Education graduation requirement.

Prerequisites: None

Health & PE - Grade 9 (not Driver Education) Virtual (Course Number – 08052; VA Assignment Code – 7300)

1 Credit

Online Health & PE offers both health and physical education in a nationally and state aligned course curriculum. Students will use Online Health & PE to fulfill their 9th grade health and physical education requirements, and will do it on their time, in their comfort zone and in their community. The key areas of learning are the same one would find in an ordinary classroom in an independent study curriculum set. Using technology for presenting health and physical education allows the students to have control over their education and the environment in which they learn. Students will be required to participate in physical activity, of their choosing, on their time. Students will be given a heart rate monitor which measures and tracks healthy heart rate activity. Each student must participate in the healthy heart rate range for a certain length of time to get credit for the physical education portion of their grade. Students in grade nine integrate a variety of health concepts, skills, and behaviors to plan for their personal, lifelong health goals. These include awareness and consequences of risky behaviors, disease prevention, overall wellness and good Samaritan CPR, First Aid and AED training will be offered online and accessed by the online teacher.

Graduation Requirements: This course is required to fulfill the Health & Physical Education graduation requirement.

Prerequisites: None

Health, PE, & Driver Education Theory - Grade 10 (Course Number – 08201-II; VA Assignment Code – 7425)

1 Credit

This course is designed to provide instruction in lifetime fitness, team and individual sports with an emphasis on lifetime fitness, along with dance and recreational sports. The student will demonstrate an understanding of health concepts, behaviors, and skills that reduce health risks and enhance the health

and wellness of self and others throughout life. One semester health and one semester driver education.

Effective July 22, 2022, State Legislature SB 78 requires all approved public, private, and commercial driver training schools to add a 90-minute parent/student component to the classroom driver education curriculum.

Graduation Requirements: This course is required to fulfill the Health & Physical Education graduation requirement.

Prerequisites: Health and Physical Education - Grade 9

Health & PE - Grade 10 (not Driver Education) Virtual (Course Number – V8999; VA Assignment Code – 7400)

1 Credit

Online Health & PE offers both health and physical education in a nationally and state aligned course curriculum. Students will use Online Health & PE to fulfill their 10th grade health and physical education requirements, and will do it on their time, in their comfort zone and in their community. The key areas of learning are the same one would find in an ordinary classroom in an independent study curriculum set. Using technology for presenting health and physical education allows the students to have control over their education and the environment in which they learn. Students will be required to participate in physical activity, of their choosing, on their time. Students will be given a heart rate monitor which measures and tracks healthy heart rate activity. Each student must participate in the healthy heart rate range for a certain length of time to get credit for the physical education portion of their grade.

Graduation Requirements: This course can be used to fulfill the Health & Physical Education graduation requirement.

Prerequisites: Health & Physical Education - Grade 9

History & Social Science

AP African American Studies (Course Number - 04099AP; VA Assignment Code - N/A) (Pending Approval)

1 Credit

Interdisciplinary course that examines the diversity of African American experiences through direct encounters with authentic and varied sources. Students explore key topics that extend from early African kingdoms to the ongoing challenges and achievements of the contemporary moment.

Requirements: This course may be used to fulfill the history and social sciences standard credit.

Prerequisite: none

AP Modern History (Course Number - AP04067; VA Assignment Code –N/A)

1 Credit (Eligible for Verified Credit)

AP Modern History is an introductory college-level modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

Graduation Requirements: This course may be used to fulfill the history & social sciences standard credit.

Prerequisites: None

AP European History (Course Number – AP04056; VA Assignment Code – AP2399)

1 Credit (Eligible for Verified Credit)

This AP European History course follows the College Board's curriculum and is designed to be the equivalent of an introductory college or university survey of modern European history. Students investigate significant events, individuals, developments, and processes from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course also provides seven themes that students explore throughout the course in order to make connections among historical

developments in different times and places: interaction of Europe and the world, economic and commercial development, cultural and intellectual development, states and other institutions of power, social organization and development, national and European identity, and technological and scientific innovations.

Graduation Requirements: This course may be used to fulfill the history & social sciences standard credit.

Prerequisites: None

**AP Human Geography (Course Number – AP04004; VA Assignment Code – AP2212)
1 Credit (Eligible for Verified Credit)**

This AP Human Geography course follows the College Board's curriculum and is designed to be the equivalent of an introductory college-level course in human geography. It introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications.

Graduation Requirements: This course may be used to fulfill the history & social sciences standard credit.

Prerequisites: None

**AP United States Government & Politics (Course Number – AP04157; VA Assignment Code – AP2445)
1 Credit (Eligible for Verified Credit)**

The AP U.S. Government and Politics course provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behaviors. They will also engage in disciplinary practices that require

them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, students will complete a political science research or applied civics project.

Graduation Requirements: This course may be used to fulfill the history & social sciences standard credit.

Prerequisites: None

**AP United States History (Course Number – AP04104; VA Assignment Code – AP2319)
1 Credit (Eligible for Verified Credit)**

This AP U.S. History course is designed to be the equivalent of a two-semester introductory college or university U.S. history course. In AP U.S. History students investigate significant events, individuals, 4102 developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; making historical comparisons; utilizing reasoning about contextualization, causation, and continuity and change over time; and developing historical arguments. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world geography and the environment; and culture and society.

Graduation Requirements: This course may be used to fulfill the history & social sciences standard credit.

Prerequisites: None

**Virginia & U.S. Government (Course Number – 04151; VA Assignment Code – 2440)
1 Credit**

The Virginia & U.S. Government course examines the structure and functions of our federal form of government. The decision-making processes at the local, state, national, and international levels are emphasized. The foundations of American

government, the politics of American democracy, and constitutional rights and responsibilities are explored in depth. United States political and economic systems are compared to those of other nations, with emphasis on the relationships between economic and political freedoms. Economic content includes the United States market system, supply and demand, and the role of the government in the economy. Democratic values and citizen participation are stressed throughout the course.

Graduation Requirements: This course may be used to fulfill the history & social sciences standard credit.

Prerequisites: None; It is preferred that students enrolled in this course have previous experience in at least one World History and Virginia and United States History.

Virginia & U.S. History (Course Number – 04101; VA Assignment Code – 2360) 1 Credit (Eligible for Verified Credit)

This Virginia and United States History course emphasizes the historical development of American ideas and institutions from the Age of Exploration to the present. While focusing on political and economic history, the standards provide students with a basic knowledge of American culture through a chronological survey of major issues, movements, people, and events in United States and Virginia history. Students should use historical and geographical analysis skills to explore in depth the events, people, and ideas that fostered our national identity and led to our country's prominence in world affairs. The study of history must emphasize the intellectual skills required for responsible citizenship. Students practice these skills as they extend their understanding of the essential knowledge defined by the standards for history and social science.

Graduation Requirements: This course may be used to fulfill the history & social sciences standard credit.

Prerequisites: Successful completion of World History I and World History II is recommended but not required.

World Geography (Course Number – 04001; VA Assignment Code – 2210) 1 Credit (Eligible for Verified Credit)

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 perspectives of the course are centered on the world's peoples and their cultural characteristics, landforms and climates, economic development, and migration and settlement patterns. Spatial concepts of geography will be used as a framework for studying interactions between humans and their environments. Using geographic resources, students will employ inquiry, research, and technology skills to ask and answer geographic questions. Particular emphasis will be placed on students' understanding and applying geographic concepts and skills to their daily lives.

Graduation Requirements: This course may be used to fulfill the history & social sciences standard credit.

Prerequisites: None

World History & Geography to 1500 A.D. (Course Number – 04052; VA Assignment Code – 2215)

1 Credit (Eligible for Verified Credit)

This course will enable students to explore the historical development of people, places, and patterns of life from ancient times until 1500 A.D. (C.E.) in terms of the impact on Western civilization. The diversity of culture and the evolution of human history will be explored chronologically and geographically from the beginning of time until the Renaissance in Europe. Geographical concepts will be incorporated within the context of world historical events. Students will examine the development of the world's major political, economic, and legal systems; artistic and literary movements; technological changes; trade patterns; religions; and the influential people of history. Special emphasis will be given to the five themes of geography as they relate to regional conflicts, humanity's relationships with the environment, and the foundation of democratic principles, such as citizenship.

Graduation Requirements: This course may be used to fulfill the history & social sciences standard credit.

Prerequisites: None

World History & Geography 1500 A.D. to the Present (Course Number – 04053; VA Assignment Code – 2216)

1 Credit (Eligible for Verified Credit)

This course covers history and geography from 1500 A.D. to the present, with emphasis on Western Europe. Geographic influences on history continue to be explored, but increasing attention is given to political boundaries that developed with the evolution of nations. Significant attention will be given to the ways in which scientific and technological revolutions created new economic conditions that in turn produced social and political changes. Noteworthy people and events of the nineteenth and twentieth centuries will be emphasized for their strong connections to contemporary issues.

Graduation Requirements: This course may be used to fulfill the history & social sciences standard credit.

Prerequisites: None

World History & Geography to 1500 A.D. Honors (Course Number – H04052; VA Assignment Code – H2215)

1 Credit (Eligible for Verified Credit)

This honors course explores the historical development of people, places, and patterns of life from ancient times until 1500 A.D. (C.E.) in terms of the impact on Western civilization but with an approach which guides students into deeper learning through questioning and investigation. This course will be challenging and will require students to take a larger role in their learning by participating in problem-solving, creative processes, critical analysis and reflective thinking. Students will be given the opportunity to explore recurring themes of the human experience common to civilizations around the globe from ancient to contemporary times. The goals and objectives of this course are the same as the general World History I course but the

material will reflect a greater complexity of thought. The diversity of culture and the evolution of human history will be explored chronologically and geographically from the beginning of time until the Renaissance in Europe. Geographical concepts will be incorporated within the context of world historical events. Students will examine the development of the world's major political, economic, and legal systems; artistic and literary movements; technological changes; trade patterns; religions; and the influential people of history. Special emphasis will be given to regional conflicts, humanity's relationships with the environment, and the foundation of democratic principles from ancient times.

Graduation Requirements: This course may be used to fulfill the history & social sciences standard credit.

Prerequisites: None

World History & Geography: 1500 A.D. to the Present Honors (Course Number – H04053; VA Assignment Code – H2216)

1 Credit (Eligible for Verified Credit)

This honors course will enable students to cover history and geography from 1500 A.D. (C.E.) to the Present, with an emphasis on Western Europe and an approach which guides students into deeper learning through questioning and investigation. This course will require students to participate in problem-solving, critical analysis and reflective thinking. Students will be given the opportunity to explore recurring themes of the human experience common to nations around the globe, from the Reformation to contemporary times. The goals and objectives of this course are the same as the general World History II course, but the material will require deeper student thought. Geographic influences on history will continue to be explored, but increasing attention is given to political boundaries that developed with the evolution of nations. Significant attention will be given to the ways in which scientific and technological revolutions created new economic conditions that in turn produced social and political changes. Noteworthy people and events of the

nineteenth and twentieth centuries will be emphasized for their strong connections to contemporary issues.

Graduation Requirements: This course may be used to fulfill the history & social sciences standard credit.

Prerequisites: None

African American Studies (Course Number – 04107; VA Assignment Code – 2371)

1 Credit

The African American Studies course in Richmond Public Schools is designed to develop an understanding of the causes, character, and consequences of the African American experience and its influence on the African American community, the United States, and the world. Beginning with a historical, geographical, social, political, economic, and cultural understanding of the African continent, the course will provide a descriptive and corrective overview which will introduce the student to the study of the African and African American experiences.

This course is a survey of the African American experience from the African background to the post-civil rights developments. It focuses on African Americans' quest for the "American Dream" and how they attempted to deal with the problems and challenges posed by enslavement and racism. Themes of change and continuity in the black experience, the struggles against Jim Crow, the struggle for civil rights, and post-civil rights developments are also examined.

Graduation Requirements: This is an elective course and does not fulfill the requirements of the history and social sciences credits towards graduation.

Prerequisites: None

REAL Richmond (Course Number 04903; VA Assignment Code – N/A)

1 Credit

The REAL Richmond course is built upon the goal of reconciling a more accurate and thorough account of Richmond history with the hearts and minds of students who may have acquired a less transparently full narrative about the city of their birth and/or

residence. This course places an emphasis on allowing students to use the city as their classroom. Providing students a clear and encompassing history of RVA, this course also takes a crucial step towards innovative pedagogy which puts learning into the hands of students through ongoing performance tasks (engaging, hands-on experiences) and place-based learning so that they develop a burning desire to know more while refining the historical research and writing skills needed for critical thinking and application. At the end of the course, as a final assessment, students will complete a capstone project including specific elements from the course which impacted their understanding of music, politics, faith, family, economy etc.

Graduation Requirements: This is an elective course and does not fulfill the requirements of the history and social sciences credits towards graduation.

Prerequisites: None

Sociology (Course Number – 04258; VA Assignment Code – 2500)

1 Credit

This elective course is designed to provide students with a study of the roles of individuals, families, and community groups and to familiarize students with various cultures and the problems which can result from people living in groups. Students will study how such groups interact within a community setting in light of the basic concepts and theories covering many areas of contemporary sociology. Positive human relationships are an essential part of a civilized society and how we interact with each other is important so that we can find answers to questions and solve problems in our world. Topics to be covered include culture, violence, deviance, social control, socialization and personality, group behavior, social class, and social institutions. The key component of this course is the study of one's self and the society that influences our behavior.

Graduation Requirements: This is an elective course and does not fulfill the requirements of

the history and social sciences credits towards graduation.

Prerequisites: None

AP Psychology (Course Number 04256; VA Assignment Code - N/A)

1 Credit

The Advanced Placement course in Psychology introduces students to the in-depth exploration of the scientific study of human behavior and mental processes. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students will explore research methods, biological bases of behavior, experimental techniques, sensation and perception, learning and cognition, personality traits, abnormal psychology, and social psychology. Students will learn to analyze and understand human behavior through critical thinking, research, and application of psychological theories and the methods psychologists employ in their science and practice. Emphasis is placed on ideas and contributions that psychology has made to understanding human behavior. Students will use additional resources from AP Classroom to supplement instruction. It is expected that all students will take the AP exam for this course.

Graduation Requirements: This is an elective course and does not fulfill the requirements of the history and social sciences credits towards graduation.

Prerequisites: None

International Baccalaureate

IB Biology HL1 - Grade 11 (Course Number – IB03057-HL1; VA Assignment Code – IB4380)

1 Credit

This course is year 1 of a 2-year college-level sequence, and fills the Group 4 requirement of the IB Diploma. In this course, students make sense of living systems through theoretical and practical applications. Syllabus includes molecules, cells, organisms, and ecosystems, with an extended list of topics of

study in each unit for Higher Level. Topics are examined through four conceptual frameworks: commonality and diversity, form and function, interaction and interdependence, and continuity and change. Participation in the collaborative sciences project is mandatory. Students will develop and apply investigative and analytical skills in scientific inquiry, as well as practice the use of investigative technologies. This course prepares students for the Biology Higher Level DP assessments and exam in year 2.

Graduation Requirements: This course may be used or counted toward the graduation requirement in science.

Prerequisites: Biology I

IB Biology HL2 - Grade 12 (Course Number – IB03057-HL2; VA Assignment Code – IB4390)

1 Credit

This course is year 2 of a 2-year college-level sequence, and fills the Group 4 requirement of the IB Diploma. In this course, students make sense of living systems through theoretical and practical applications. Syllabus includes molecules, cells, organisms, and ecosystems, with an extended list of topics of study in each unit for Higher Level. Topics are examined through four conceptual frameworks: commonality and diversity, form and function, interaction and interdependence, and continuity and change. Students will continue developing and applying investigative and analytical skills through independent scientific inquiry as they design, conduct, and report on an independent biological investigation. The course prepares students for the Biology Higher Level DP assessments and exam.

Graduation Requirements: This course may be used or counted toward the graduation requirement in science.

Prerequisites: IB Biology I HL

IB Biology SL1 - Grade 11 (Course Number – IB03057-SL1; VA Assignment Code – IB4380)

1 Credit

This course is year 1 of a 2-year college-level sequence, and fills the Group 4 requirement

of the IB Diploma. In this course, students make sense of living systems through theoretical and practical applications. Syllabus includes molecules, cells, organisms, and ecosystems, with a list of topics of study in each unit. Topics are examined through four conceptual frameworks: commonality and diversity, form and function, interaction and interdependence, and continuity and change. Participation in the collaborative sciences project is mandatory. Students will develop and apply investigative and analytical skills in scientific inquiry, as well as practice the use of investigative technologies. This course prepares students for the Biology Standard Level DP assessments and exam in year 2.
Graduation Requirements: This course may be used or counted toward the graduation requirement in science. Prerequisites: Biology I

IB Biology SL2 - Grade 12 (Course Number – IB03057-SL2; VA Assignment Code – IB4390)

1 Credit

This course is year 2 of a 2-year college-level sequence. This course fills the Group 4 requirement of the IB Diploma. In this course, students make sense of living systems through theoretical and practical applications. Syllabus includes molecules, cells, organisms, and ecosystems, with a list of topics of study in each unit. Topics are examined through four conceptual frameworks: commonality and diversity, form and function, interaction and interdependence, and continuity and change. Students will continue developing and applying investigative and analytical skills through independent scientific inquiry as they design, conduct, and report on an independent biological investigation. The course prepares students for the Biology Standard Level DP assessments and exam.
Graduation Requirements: This course may be used or counted toward the graduation requirement in science.

Prerequisites: IB Biology SL 1

IB Business Management SL1 - Grade 11 (Course Number 12059-SL1; VA Assignment Code-N/A) (Pending Approval)

1 Credit

This course, year 1 of a 2-year college-level sequence, fills the Group 3 requirements for the IB Diploma. The course focuses on developing the student's skills as a change agent able to work creatively, ethically, and sustainably as they manage and work with change in a business setting. Students will learn business functions, management processes, and decision making in contemporary contexts of strategic uncertainty. The course emphasizes business functions, including human resource management, finance and accounts, marketing, and operations management. Students engage in a Business Research Project. The course prepares students for the IB Business Management Standard Level assessments and examinations in year 2.
Graduation Requirements: This course may be used or counted toward the graduation requirement in CTE or for elective course credit. Prerequisites: Principles of Business and Management or similar CTE course

IB Business Management HL1 - Grade 11 (Course Number 12059-HL1; VA Assignment Code-N/A) (Pending Approval)
1 Credit

This course, year 1 of a 2-year college-level sequence, fills the Group 3 requirements for the IB Diploma. The course focuses on developing the student's skills as a change agent able to work creatively, ethically, and sustainably as they manage and work with change in a business setting. Students will learn business functions, management processes, and decision making in contemporary contexts of strategic uncertainty. The course emphasizes business functions, including human resource management, finance and accounts, marketing, and operations management. The Higher Level course includes topics including budgets, international marketing, and advanced operations skills. Students engage in a Business Research Project. The course prepares students for the IB Business Management Higher Level assessments and examinations in year 2.

Graduation Requirements: This course may be used or counted toward the graduation

requirement in CTE or for elective course credit.
Prerequisites: Principles of Business and Management or similar CTE course

IB Environmental Systems & Societies SL1 - Grade 11 (Course Number – IB03208-SL1; VA Assignment Code – IB4280)
1 Credit

This course is year 1 of a 2-year college-level sequence, and fills the group 4 requirement of the IB Diploma. In this course, students explore both the scientific and the societal aspects of environmental studies. Work is done under eight topics: foundations, ecology, biodiversity and conservation, water, land, atmosphere and climate change, natural resources, and human populations and urban systems. Students will create and be assessed on labs and procedures, and will participate in the Collaborative Sciences Project in year 1. Students will design, undertake, and report on a scientific investigation. . This course prepares students for the Environmental Systems and Societies Standard Level assessments and exam in year 2.

Graduation Requirements: This course may be used or counted toward the graduation requirement in science or for elective course credit.

Prerequisites: Geometry and at least one of the following: Earth Science, Biology I

IB Environmental Systems & Societies SL2 - Grade 12 (Course Number – IB03208-SL2; VA Assignment Code – IB4281)
1 Credit

This course is year 2 of a 2-year college-level sequence, and fills the group 4 requirement of the IB Diploma. In this course, students explore both the scientific and the societal aspects of environmental studies. Work is done under eight topics: foundations, ecosystems and ecology, biodiversity and conservation, water and aquatic food production, soil systems and terrestrial food production, atmospheric systems and societies, climate change and energy production, human systems and resource use. Students will create and be assessed on labs and procedures. Students present and analyze data in a clear, concise, and

organized manner, using appropriate graphical, diagrammatic and mathematical techniques and appropriate technologies.

This course prepares students for the Environmental Systems and Societies Standard Level assessments and exam.

Graduation Requirements: This course may be used or counted toward the graduation requirement in science or for elective course credit.

Prerequisites: IB Environmental Systems SL1

IB History I - Grade 11 (Course Number – IB04054-I; VA Assignment Code – IB2360)
1 Credit (Eligible for Verified Credit)

This course is year 1 of a 2-year college-level sequence. The course satisfies required content for the United States/Virginia History course. This course also fills the Group 3 requirements for the IB Diploma. A comprehensive study of Virginia and United States history is followed along with IB History content, including investigating the causes and effects of 20th century wars and the study of rights and protest in the United States. Students examine processes for gathering historical evidence and learn to evaluate its validity. Students may take the Virginia and United States History end-of-course SOL test at the end of year 1. The course prepares students for the IB History Higher Level assessments and examinations in year 2.

Graduation Requirements: This course may be used to fulfill the history & social sciences standard credit.

Prerequisites: World History and Geography II: 1500 AD to the Present

IB History II - Grade 12 (Course Number – IB04054-II; VA Assignment Code – IB2361)
1 Credit

This course is year 2 of a 2-year college-level sequence, and fills the Group 3 requirement for the IB Diploma. The course includes IB History content, including the global history of rights and protest, authoritarian states, further investigation into causes and effects of 20th century wars, and aspects of the history of the Americas. Students examine processes for gathering historical evidence and learn to evaluate its validity. Students must conduct

required individually driven research and writing. The course prepares students for the IB History Higher Level assessments and examinations.

Graduation Requirements: This course may be used to fulfill the history & social sciences standard credit.

Prerequisites: IB History HL1

IB Psychology I - Grade 11 (Course Code - 04257-I; VA Assignment Code - N/A)

(Pending Approval)

1 Credit

This course is year 1 of a 2-year college-level sequence. It fills the Group 3 requirements for the IB Diploma. Students explore three different approaches to understanding human behavior: biological, cognitive, and sociocultural. As part of this exploration, students study and critically evaluate the knowledge and conceptual and theoretical ideas that have contributed to our understanding of complex, dynamic mental processes and behavior. Quantitative and qualitative research methods are studied. Students apply the themes of research and ethics as they develop their own experimental study. The course prepares students for the IB Psychology Standard Level assessments and examinations in year 2.

Graduation Requirements: This course may be counted for elective course credit.

Prerequisite: Biology I

IB Psychology II - Grade 11 (Course Code - 04257-II; VA Assignment Code - N/A)

(Pending Approval)

1 Credit

This course is year 1 of a 2-year college-level sequence. It fills the Group 3 requirements for the IB Diploma. Students explore three different approaches to understanding human behavior: biological, cognitive, and sociocultural. As part of this exploration, students study and critically evaluate the knowledge and conceptual and theoretical ideas that have contributed to our understanding of complex, dynamic mental processes and behavior. Quantitative and qualitative research methods are studied. Students apply the themes of research and

ethics as they develop their own experimental study. In the Higher Level course, students will implement both quantitative and qualitative research in psychology. They will also evaluate research scenarios from a methodological and ethical perspective. The course prepares students for the IB Psychology Higher Level assessments and examinations in year 2.

Graduation Requirements: This course may be counted for elective course credit.

Prerequisite: Biology I

IB Language A: Language and Literature – English SL1 – Grade 11 (SCED Code 01011-SL1; VA Assignment Code -N/A)

1 Credit (Eligible for Verified Credit)

This course is year 1 of a 2-year college-level sequence. The course satisfies required content for the State of Virginia EOC English along with the Group 1 requirement of the IB Diploma. The course explores language through both literary and non-literary texts. Students explore how meaning is constructed across various media, contexts, genres, periods, and places of American and English-language literature and literature in translation, with an eye toward cultural analysis, understanding, and awareness of global concerns. Coursework is divided into three parts explored over both years: Readers, writers, and texts; Time and space; and Intertextuality: connecting texts. Students will collect their critical and creative reflections and responses to their readings in a Learner Portfolio. In year 1, students take the SOL English Reading and English Writing End-of-Course exams and complete the Individual Oral assessment required for IB. The course prepares students to take the IB English Language and Literature Standard Level exams in Year 2. *Prerequisite: English – Grade 10*

Available Verified Credit: Yes

Graduation Requirements: This IB course is one (1) course that may be used or counted as one of the four (4) required courses needed to fulfill the English standard credits

IB Language A: Language & Literature – English SL2 - Grade 12 (Course Number – 01011-SL2; VA Assignment Code – N/A)

1 Credit

This course is year 2 of a 2-year college-level sequence. The course fills the Group 1 requirement of the IB Diploma. The course explores language through both literary and non-literary texts. Students explore how meaning is constructed across various media, contexts, genres, periods, and places of English-language literature and literature in translation, with an eye toward cultural analysis, understanding, and awareness of global concerns. Coursework is divided into three parts explored over both years: Readers, writers, and texts; Time and space; and Intertextuality: connecting texts. Students will collect their critical and creative reflections and responses to their readings in a Learner Portfolio. The course prepares students for the IB English Language and Literature Standard Level exams.

Prerequisite: IB Language A: Language and Literature – English SL1

Available Verified Credit: None

Graduation Requirements: This IB course is one (1) course that may be used or counted as one of the four (4) required courses needed to fulfill the English standard credits

IB Language A: Language & Literature - English HL1 - Grade 11 (Course Number – 01011-HL1; VA Assignment Code – N/A) 1 Credit (Eligible for Verified Credit)

This course is year 1 of a 2-year college-level sequence, and satisfies required content for the State of Virginia EOC English along with the Group 1 requirement of the IB Diploma. The course explores language through both literary and non-literary texts. Students explore how meaning is constructed across various media, contexts, genres, periods, and places of American and English-language literature and literature in translation, with an eye toward cultural analysis, understanding, and awareness of global concerns.

Coursework is divided into three parts explored over both years: Readers, writers, and texts; Time and space; and Intertextuality: connecting texts. Students will collect their critical and creative reflections and responses to their readings in a Learner Portfolio. In year 1, students take the SOL English Reading and English Writing End-of-Course exams and complete the Individual Oral assessment required for IB.

The course prepares students to complete the HL Essay and the IB English Language and Literature Higher Level exams in Year 2. *Graduation Requirements: This course is may be used or counted as one of the four required courses needed to fulfill the English standard credits*

Prerequisites: English - Grade 10

IB Language A: Language & Literature - English HL2 - Grade 12 (Course Number – 01011-HL2; VA Assignment Code – N/A) 1 Credit

This course is year 2 of a 2-year college-level sequence. The course fills the Group 1 requirement of the IB Diploma. The course explores language through both literary and non-literary texts. Students explore how meaning is constructed across various media, contexts, genres, periods, and places of English-language literature and literature in translation, with an eye toward cultural analysis, understanding, and awareness of global concerns. Coursework is divided into three parts explored over both years: Readers, writers, and texts; Time and space; and Intertextuality: connecting texts. Students will collect their critical and creative reflections and responses to their readings in a Learner Portfolio. Students complete the HL Essay. The course prepares students for the IB English Language and Literature Higher Level exams in Year 2.

Prerequisite: IB Language A: Language and Literature – English HL1

Available Verified Credit: None

Graduation Requirements: This IB course is one (1) course that may be used or counted as one of the four (4) required courses needed to fulfill the English standard credits

IB Language Ab Initio - French SL1 - Grade 11 (Course Number – IB24118-SL1; VA Assignment Code – IB5152) 1 Credit

This course is year 1 of a 2-year college-level sequence, and fills the Group 2 requirement for the IB Diploma. For students with little or no previous experience in French who have developed strong language study skills in another language. Through study of vocabulary, linguistic structures, and writing systems, students will learn to communicate

clearly in a range of situations in an accelerated time frame. Students will also work to demonstrate an awareness of cultural and intercultural elements related to prescribed topics. The class will prepare students for the IB French ab initio Standard Level assessments and exams in year 2.

Graduation Requirements: This course may be used or counted toward the graduation requirement in World Language or for elective course credit.

Prerequisites: Spanish II or at least two years of successful study of another foreign language with high school credit.

IB Language Ab Initio - French: SL2 - Grade 12 (Course Number – IB24118-SL2; VA Assignment Code – IB5162)

1 Credit

This course is year 2 of a 2-year college-level sequence, and fills the Group 2 requirement for the IB Diploma. Through study of vocabulary, linguistic structures, and writing systems, students will learn to communicate clearly in a range of modes and situations in an accelerated time frame. Students will also work to demonstrate an awareness of cultural and intercultural elements related to prescribed topics. Oral assessments are required. The class will prepare students for the IB French ab initio Standard Level assessments and exams.

Graduation Requirements: This course may be used or counted toward the graduation requirement in World Language or for elective course credit.

Prerequisite: IB Language Ab Initio – French SL1

IB Language B – French SL1 – Grade 11 (SCED code 24113-SL1; VA Assignment Code IB5152)

1 Credit

This course is year 1 of a 2-year college-level sequence. This course fills the Group 2 requirement for the IB Diploma. The course focuses on language acquisition and the development of receptive (reading and listening), productive (writing and speaking), and interactive (conversing) skills. Students develop competencies through the study of a

range of written and spoken material organized around five themes: identities, experiences, human ingenuity, social organization, and sharing the planet. The class will prepare students for the IB French B Standard Level assessments and exams in year 2.

Graduation Requirements: This course may be used or counted toward the graduation requirement in World Language or for elective course credit.

Prerequisite: French II or above

IB Language B - French SL2 - Grade 12 (Course Number 24113-SL2: VA Assignment Code IB5152SL)

1 Credit

This course is year 2 of a 2-year college-level sequence. This course fills the Group 2 requirement for the IB Diploma. The course focuses on language acquisition and the development of receptive (reading and listening), productive (writing and speaking), and interactive (conversing) skills. Students develop competencies through the study of a range of written and spoken material organized around five themes: identities, experiences, human ingenuity, social organization, and sharing the planet. Oral assessments are required. The class will prepare students for the IB French B Standard Level assessments and exams.

Graduation Requirements: This course may be used or counted toward the graduation requirement in World Language or for elective course credit.

Prerequisite: IB Language B - French SL1

IB Language B – French HL1 – Grade 11 (SCED code 24113-HL1; VA Assignment Code IB5152 HL)

1 Credit

This course is year 1 of a 2-year college-level sequence. This course fills the Group 2 requirement for the IB Diploma. The course focuses on language acquisition and the development of receptive (reading and listening), productive (writing and speaking), and interactive (conversing) skills, with a study of introductory French-language literature. Students develop competencies through the study of a range of written and spoken material organized around five themes: identities,

experiences, human ingenuity, social organization, and sharing the planet. The class will prepare students for the IB French B Higher Level assessments and exams in year 2.

Graduation Requirements: This course may be used or counted toward the graduation requirement in World Language or for elective course credit.

Prerequisite: French III or above

IB Language Ab Initio - Japanese SL1 - Grade 11 (Course Number – IB24468-SL1; VA Assignment Code – IB5942)
1 Credit

This course is year 1 of a 2-year college-level sequence, and fills the Group 2 requirement for the IB Diploma. For students with little or no previous experience in Japanese who have developed strong language study skills in another language. Through study of vocabulary, linguistic structures, and writing systems, students will learn to communicate clearly in a range of situations in an accelerated time frame. Students will also work to demonstrate an awareness of cultural and intercultural elements related to prescribed topics. The class will prepare students for the IB Japanese ab initio Standard Level assessments and exams in year 2.

Graduation Requirements: This course may be used or counted toward the graduation requirement in World Language or for elective course credit.

Prerequisites: Spanish II or at least two years of successful study of another foreign language with high school credit.

IB Language Ab Initio - Japanese SL2 - Grade 12 (Course Number – IB24468-SL2; VA Assignment Code – IB5952)
1 Credit

This course is year 2 of a 2-year college-level sequence, and fills the Group 2 requirement for the IB Diploma. Through study of vocabulary, linguistic structures, and writing systems, students will learn to communicate clearly in a range of modes and situations in an accelerated time frame. Students will also work to demonstrate an awareness of cultural

and intercultural elements related to prescribed topics. Oral assessments are required. The class will prepare students for the IB Japanese ab initio Standard Level assessments and exams.

Graduation Requirements: This course may be used or counted toward the graduation requirement in World Language or for elective course credit.

Prerequisites: IB Language Ab Initio – Japanese SL1

IB Language B - Spanish SL1 - Grade 11 (Course Number – IB24063-SL1; VA Assignment Code – IB5552)
1 Credit

This course is year 1 of a 2-year college-level sequence, and fills the Group 2 requirement for the IB Diploma. The course focuses on language acquisition and the development of receptive (reading and listening), productive (writing and speaking), and interactive (conversing) skills. Students develop competencies through the study of a range of written and spoken material organized around five themes: identities, experiences, human ingenuity, social organization, and sharing the planet. The class will prepare students for the IB Spanish B Standard Level assessments and exams in year 2.

Graduation Requirements: This course may be used or counted toward the graduation requirement in World Language or for elective course credit.

Prerequisites: Spanish II or above

IB Language B - Spanish SL2 - Grade 12 (Course Number – IB24063-SL2; VA Assignment Code – IB5562)
1 Credit

This course is year 2 of a 2-year college-level sequence, and fills the Group 2 requirement for the IB Diploma. The course focuses on language acquisition and the development of receptive (reading and listening), productive (writing and speaking), and interactive (conversing) skills. Students develop competencies through the study of a range of written and spoken material organized around five themes: identities, experiences, human ingenuity, social organization, and sharing the

planet. Oral assessments are required. The class will prepare students for the IB Spanish B Standard Level assessments and exams.

Graduation Requirements: This course may be used or counted toward the graduation requirement in World Language or for elective course credit.

Prerequisites: IB Language B – Spanish SL1

IB Language B - Spanish HL1 - Grade 11

(Course Number – IB24063-HL1; VA

Assignment Code – IB5552)

1 Credit

This course is Year 1 of a 2-year college-level sequence, and fills the Group 2 requirement for the IB Diploma. The course focuses on language acquisition and the development of receptive (reading and listening), productive (writing and speaking), and interactive (conversing) skills, with preparation for a study of introductory Spanish-language literature in Year 2. Students develop competencies through the study of a range of written and spoken material organized around five themes: identities, experiences, human ingenuity, social organization, and sharing the planet. The class will prepare students for the IB Spanish B Higher Level assessments and exams in Year 2.

Graduation Requirements: This course may be used or counted toward the graduation requirement in World Language or for elective course credit.

Prerequisites: Spanish III or above

IB Language B - Spanish HL2 - Grade 12

(Course Number – IB24063-HL2; VA

Assignment Code – IB5562)

1 Credit

This course is year 2 of a 2-year college-level sequence, and fills the Group 2 requirement for the IB Diploma. The course focuses on language acquisition and the development of receptive (reading and listening), productive (writing and speaking), and interactive (conversing) skills, with a study of introductory Spanish-language literature. Students develop competencies through the study of a range of written and spoken material organized around five themes: identities, experiences, human ingenuity, social

organization, and sharing the planet. Oral assessments are required. The class will prepare students for the IB Spanish B Higher Level assessments and exams.

Graduation Requirements: This course may be used or counted toward the graduation requirement in World Language or for elective course credit.

Prerequisites: IB Spanish B HL1

IB Math: Applications & Interpretation SL1 -

Grade 11 (Course Number – IB02139-SL1;

VA Assignment Code – IB3196)

1 Credit

This course is year 1 of a 2-year college-level sequence, and fills the Group 5 requirement of the IB Diploma. Students will study topics common to the IB Mathematics: Applications and Interpretation SL course and the IB Mathematics: Analysis and Approaches SL course. Core topics include number and algebra; functions; geometry and trigonometry; statistics and probability; and calculus. Students will begin investigation and development of an independent exploration in mathematics, a required assessment. The course prepares students for enrollment in year 2 in either IB Math: Applications and Interpretation SL II (for students interested in further study in fields such as the social sciences, natural sciences, medicine, statistics, business, and design) or IB Math: Analysis and Approaches SL II (for students interested in further study in mathematics, engineering, the physical sciences, and some economics). The course leads to eventual IB assessment and examination in year 2.

Graduation Requirements: This course may be used or counted toward the graduation requirement in mathematics.

Prerequisites: Algebra II and Geometry

IB Math: Applications and Interpretation

SL2 - Grade 12 (Course Number –

IB02139-SL2; VA Assignment Code – IB3196)

1 Credit

This course is year 2 of a 2-year college-level sequence, and fills the Group 5 requirement of the IB Diploma. Course content focuses on the application of mathematics outside of the

classroom and the mathematical needs of students who may pursue further studies in the social sciences, natural sciences, medicine, statistics, business, some economics courses, psychology, and design. With a focus on statistics, modeling, and use of technology, students continue to study core mathematical topics. These include number and algebra; functions; geometry and trigonometry; statistics and probability; and calculus. Completion of an independently driven mathematical exploration including original research and data collection is required. The course prepares students for the IB Math: Applications and Interpretation SL assessment and exam.

Graduation Requirements: This course may be used or counted toward the graduation requirement in mathematics.

Prerequisites: IB Math: Applications and Interpretation SL1 – Grade 11

IB Math: Analysis and Approaches SL2 - Grade 12 (Course Number – IB02140-SL2; VA Assignment Code – IB3198)

1 Credit

This course is year 2 of a 2-year college-level sequence, and fills the Group 5 requirement of the IB Diploma. Course content focuses mathematics with an emphasis on calculus, making the course suitable for students who wish to study engineering, pure mathematics, physical sciences, some economists, and students with an interest in analytic methods. Students will also further their study of core mathematical topics, including algebra; functions; geometry and trigonometry; and statistics and probability. Completion of an independently driven mathematical exploration is mandatory. The course prepares students for the IB Math: Analysis and Approaches SL assessments and examinations.

Graduation Requirements: This course may be used or counted toward the graduation requirement in mathematics.

Prerequisites: IB Math: Applications and Interpretation SL1 – Grade 11

IB Music SL1 - Grade 11 (Course Number – IB05115-I; VA Assignment Code – IB9294)

1 Credit

This course is year 1 of a 2-year college-level sequence, and fills the Group 6 requirement for the IB Diploma. It encourages students to become competent, skilled musicians while approaching the art with imagination and creativity. The course requires proficiency reading standard pitched musical notation on musical staves and playing a band instrument. Students experiment with musical forms through study, composition, and performance. The course includes examination, analysis, and creation of music in personal, local, and global contexts and various genres and time periods. Performances, both solo and ensemble, are required, as is the maintenance of a musical journal where students record ideas and reflections. IB Music SL assessments are cumulative in years 1 and 2.

Graduation Requirements: This course may be used or counted toward the graduation requirement in Fine Arts or for elective course credit.

Prerequisites: High School Intermediate Band

IB Music SL2 - Grade 12 (Course Number – IB05115-II; VA Assignment Code – IB9295)
1 Credit

This course is year 2 of a 2-year college-level sequence. This course fills the Group 6 requirement for the IB Diploma, and encourages students to become competent, skilled musicians while approaching the art with imagination and creativity. The course requires proficiency reading standard pitched musical notation on musical staves and playing a band instrument. Students experiment with musical forms through study, composition, and performance. The course includes examination, analysis, and creation of music in personal, local, and global contexts and various genres and time periods. Performances, both solo and ensemble, are required, as is the maintenance of a musical journal where students record ideas and reflections. IB Music SL assessments are cumulative in years 1 and 2.

Graduation Requirements: This course may be used or counted toward the graduation

requirement in Fine Arts or for elective course credit.

Prerequisites: IB Music SL1

IB-DP Music HL1 – Grade 11 (SCED Code 05115-HL1; VA Assignment Code IB9294HL)

This course is year 1 of a 2-year college-level sequence. This course fills the Group 6 requirement for the IB Diploma, and encourages students to become competent, skilled musicians while approaching the art with imagination and creativity. The course requires proficiency reading standard pitched musical notation on musical staves and playing a band instrument. Students experiment with musical forms through study, composition, and performance. The course includes examination, analysis, and creation of music in personal, local, and global contexts and various genres and time periods. Performances, both solo and ensemble, are required, as is the maintenance of a musical journal where students record ideas and reflections. Students begin planning an HL contemporary music making project that draws on the competencies, skills, and processes in the exploration, experimentation, and presentation parts of the course. IB Music HL assessments are cumulative in years 1 and 2.

Graduation Requirements: This IB course is one (1) that may be used or counted toward the graduation requirement in Fine Arts or for elective course credit.

Prerequisite: High School Intermediate Band

IB Physics SL1 - Grade 11 (Course Number – IB03157-SL1; VA Assignment Code – IB4580)

1 Credit

This course is year 1 of a 2-year college-level sequence and fills the Group 4 requirement of the IB Diploma. Students learn the principles of physics through scientific inquiry in the classroom and in the laboratory. Learning involves understanding and undertaking observations, studying and developing models to try to understand those observations, and understanding and utilizing the theories that may develop as a result.

Syllabus topics over the two-year course include space, time and motion; the particulate nature of matter; wave behaviors; fields; and nuclear and quantum physics. Students develop skills using experimental techniques, technology, and mathematics. Participation in the collaborative sciences project is mandatory. Students will create and be assessed on labs and procedures. The course prepares students for the Physics Standard Level DP assessments and examination in year 2.

Graduation Requirements: This course may be used or counted toward the graduation requirement in science.

Prerequisites: Algebra II and Geometry with concurrent enrollment in IB Mathematics: Applications and Interpretation SL1 or equivalent

IB Physics SL2 - Grade 12 (Course Number – IB03157-SL2; VA Assignment Code – IB4590)

1 Credit

This course is year 2 of a 2-year college-level sequence and fills the Group 4 requirement of the IB Diploma. Students learn the principles of physics through scientific inquiry in the classroom and in the laboratory. Learning involves understanding and undertaking observations, studying and developing models to try to understand those observations, and understanding and utilizing the theories that may develop as a result. Syllabus topics over the two-year course include space, time and motion; the particulate nature of matter; wave behaviors; fields; and nuclear and quantum physics. Students continue developing skills using experimental techniques, technology, and mathematics. Students will create and be assessed on an independently developed scientific investigation. The course prepares students for the Physics Standard Level DP assessments and examination.

Graduation Requirements: This course may be used or counted toward the graduation requirement in science.

Prerequisites: IB Physics SL1 (Strongly recommended is concurrent enrollment in IB Math: Applications and Interpretation SL2, IB

Math: Analysis and Approaches SL2, or equivalent)

IB Theatre SL1 – Grade 11 (Course Code 05062-I; VA Assignment Code IB1432)

(Pending Approval)

1 Credit

This course is year 1 of a 2-year college-level sequence. This course fills the Group 6 requirement of the IB Diploma. Students will work from the perspectives of creator, designer, director, and performer to investigate play texts and world theatre traditions, and to collaboratively create original theatre. In this process, students will be required to carry out academic and physical research, and to perform to an audience. Students will also gain skills contextualizing, developing, refining, and critiquing work at various stages in diverse theatre contexts. Practical assessments for the two-year course include a collaborative theatre piece, a presentation of the student's independent research, and an independently produced written production proposal for a published play. Students will continue work on the Theatre Standard Level DP assessments in year 2.

Prerequisite: Theatre II/Dramatic Literature & Theatre History

Available Verified Credit: None

Graduation Requirements: This IB course is one (1) that may be used or counted toward the graduation requirement in Fine Arts or for elective course credit.

IB Theory of Knowledge 1 - Grade 11 (Course Number – IB04304-I; VA Assignment Code – IB1197)

1 Credit

This course is year 1 of a 2-year college-level sequence. It is required for IB Diploma candidates and strongly suggested for students taking one or more IB Diploma Programme Courses. This course undertakes a study of knowledge and the ways we form and use it. Students consider attributes and responsibilities attached to their role as knowers. They investigate contexts for knowledge formation and how these impact understanding. The course describes the theoretical frameworks that support bodies of knowledge. Throughout, students focus on

questioning, clarifying, and expressing ideas through written and oral communication, and reflect on their developing understandings about knowledge. Students prepare for the TOK Exhibition. Student progress on the Creativity, Activity, Service (CAS) requirement is monitored. Students also begin the process of writing the Extended Essay. This 2-year course satisfies the requirements for IB-DP. *Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.*

Prerequisites: None

IB Theory of Knowledge 2 - Grade 12 (Course Number – IB04304-II; VA Assignment Code – IB1198)

1 Credit

This course is year 2 of a 2-year college-level sequence. It is required for IB Diploma candidates and strongly suggested for students taking one or more IB Diploma Programme Courses. This course undertakes a study of knowledge and the ways we form and use it. Students consider attributes and responsibilities attached to their role as knowers. They investigate contexts for knowledge formation and how these impact understanding. The course describes the theoretical frameworks that support bodies of knowledge. Throughout, students focus on questioning, clarifying, and expressing ideas through written and oral communication, and reflect on their developing understandings about knowledge. Participation in the TOK Exhibition and the Essay on a Prescribed Title are required for assessment. Student progress on the Creativity, Activity, Service (CAS) requirement is monitored. Students also complete the Extended Essay. This 2-year course satisfies the requirements for IB-DP. *Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.*

Prerequisites: IB Theory of Knowledge 1

IB Visual Arts SL1 - Grade 11 (Course Number – IB05173-I; VA Assignment Code – IB9194)

1 Credit

This course is year 1 of a 2-year college-level sequence, and fills the Group 6 requirement for the IB Diploma. Students will pursue independent learning through research and artistic production. Independently organized off-site gallery visits are required outside of school. The course will cover drawing, painting, and 3-D work/design. Students will work with a wide range of media and engage in a cultural awareness of art history, art interpretation, and global perspectives. An independently researched comparative study is required. Students work to develop a reflective portfolio of the art processes they undertake. IB Visual Arts SL assessments are cumulative in years 1 and 2.

Graduation Requirements: This course may be used or counted toward the graduation requirement in Fine Arts or for elective course credit.

Prerequisites: Art II/Intermediate

IB Visual Arts SL2 - Grade 12 (Course Number – IB05173-II; VA Assignment Code – IB9195)

1 Credit

This course is year 2 of a 2-year college-level sequence, and fills the Group 6 requirement for the IB Diploma. Students will pursue independent learning through research and artistic production. Independently organized off-site gallery visits are required outside of school. The course will cover drawing, painting, and 3-D work/design. Students will work with a wide range of media and engage in a cultural awareness of art history, art interpretation, and global perspectives. Students prepare the reflective process portfolio begun in year 1 for assessment. Participation in the IB Senior Art Show, including curating and showing the student's own artwork, is required and assessed. IB Visual Arts SL assessments are cumulative in years 1 and 2.

Graduation Requirements: This course may be used or counted toward the graduation requirement in Fine Arts or for elective course credit.

Prerequisites: IB Visual Arts SL1

IB Visual Arts HL1 - Grade 11 (Course Number – IB05173-I; VA Assignment Code – IB9194)

1 Credit

This course is year 1 of a 2-year college-level sequence. This course fills the Group 6 requirement for the IB Diploma and requires higher quality and increased output over the standard level course. Students will pursue independent learning through research and artistic production. Independently organized off-site gallery visits are required outside of school. The course will cover drawing, painting, and 3-D work/design. Students will work with a wide range of media and engage in a cultural awareness of art history, art interpretation, and global perspectives. An independently researched comparative study is required. Students work to develop a reflective portfolio of the art processes they undertake. IB Visual Arts HL assessments are cumulative in years 1 and 2.

Graduation Requirements: This course may be used or counted toward the graduation requirement in Fine Arts or for elective course credit.

Prerequisites: Art II/Intermediate

IB Visual Arts HL2 - Grade 12 (Course Number – IB05173-II; VA Assignment Code – IB9195)

1 Credit

This course is year 2 of a 2-year college-level sequence, and fills the Group 6 requirement for the IB Diploma and requires higher quality and increased output over the standard level course. Students will pursue independent learning through research and artistic production. Independently organized off-site gallery visits are required outside of school. The course will cover drawing, painting, and 3-D work/design. Students will work with a wide range of media and engage in a cultural awareness of art history, art interpretation, and global perspectives. Students prepare the reflective process portfolio begun in year 1 for assessment. Participation in the IB Senior Art Show, including curating and showing the student's own artwork, is required and assessed. IB Visual Arts HL assessments are cumulative in years 1 and 2.

Graduation Requirements: This course may be used or counted toward the graduation requirement in Fine Arts or for elective course credit.

Prerequisites: IB Visual Arts HL1

Mathematics

Algebra I (Course Number – 02052; VA Assignment Code – 3130)

1 Credit (Eligible for Verified Credit)

This course provides the foundation for future mathematics courses by transferring concrete mathematical knowledge to more abstract algebraic generalizations. The focused topics include variables and expressions; solving equations and inequalities; linear, quadratic and exponential functions; graphing and writing linear equations; systems of equations and inequalities; polynomials; factoring; statistics; and rational expressions. Students will apply the data cycle through the collection, representation and analysis of bivariate data in scatterplots, linear functions and quadratic functions. In order to develop critical thinking, this course will be learned by integrating engaging activities using an online graphing calculator (DESMOS), projects, classwork, homework, and other learning avenues.

Graduation Requirements: This course may be used to fulfill the mathematics standard credit.

Prerequisites: None

Algebra I Honors (Course Number – H02052; VA Assignment Code – H3130)

1 Credit (Eligible for Verified Credit)

Algebra I Honors is a faster paced mathematics course for students who exhibit high mathematical ability and achievement while extending learning. The course may focus on performance tasks, integration of technology and/or collaborative projects. Students will make connections and build relationships between algebra and arithmetic, geometry, and probability and statistics. Connections will also be made to other subject areas through practical applications. Students will focus on abstract and theoretical exploration collaborative and independently.

Honors Algebra I includes the use of technology (such as, graphing calculators and DESMOS) in algebra, linear and quadratic equations and functions, using algebra to analyze data, and to solve problems. Students enrolled in this course will take the Standards of Learning Algebra I test.

Graduation Requirements: This course may be used to fulfill the mathematics standard credit.

Prerequisites: None

Algebra II (Course Number – 02056; VA Assignment Code – 3135)

1 Credit (Eligible for Verified Credit)

This course extends the concepts taught in Algebra I and includes a thorough treatment of advanced algebraic concepts through the study of functions, “families of functions,” equations, inequalities, systems of equations and inequalities, polynomials, rational and radical equations, complex numbers, and sequences and series. The course also includes a transformational approach to graphing functions. Emphasis will be placed on practical applications and modeling throughout the course of study using oral and written communication in classwork, homework, projects, and other learning continuums. Online graphing calculators (DESMOS) and/or other computer graphing simulators will be integrated throughout the course.

Graduation Requirements: This course may be used to fulfill the mathematics standard credit.

Prerequisites: Algebra I

Algebra II & Trigonometry Honors (Course Number – H02106; VA Assignment Code – H3137)

1 Credit (Eligible for Verified Credit)

This accelerated paced Honors Algebra II & Trigonometry course is designed to place emphasis on independence and collaboration in understanding all the Algebra II standards with the inclusion of numerous Trigonometry standards. Engagement in performance tasks and challenging problems will help develop problem-solving skills. This course extends the concepts taught in Algebra I and includes the study of higher-degree equations, an introduction to conic sections, and the

irrational and complex number systems. Topics from trigonometry include circular functions, graphs and applications. Students will be expected to work independently and collaboratively with emphasis placed on practical applications and modeling throughout the course using oral, and written communication in classwork, homework, projects, and other learning continuums. Online graphing calculators (DESMOS) and other online simulations will be integrated. An end of year project, student selected, may be expected.

Graduation Requirements: This course may be used to fulfill the mathematics standard credit.

Prerequisites: Algebra I, Geometry

Algebra II Honors (Course Number – H02056; VA Assignment Code – H3135) 1 Credit (Eligible for Verified Credit)

This Honors Algebra II course is designed to place emphasis on independence and collaboration in understanding Algebra II objectives. Engagement in performance tasks and challenging problems will help develop problem-solving skills. This course extends the concepts taught in Algebra I and includes the study of higher-degree equations, an introduction to conic sections, and the irrational and complex number systems. Students will be expected to work independently and collaboratively with emphasis placed on practical applications and modeling throughout the course using oral, and written communication in classwork, homework, projects, and other learning continuums. Online graphing calculators (DESMOS) and other online simulations will be integrated. An end of year project, student selected, may be expected.

Graduation Requirements: This course may be used to fulfill the mathematics standard credit.

Prerequisites: Algebra I

Trigonometry/Probability & Statistics (Course Code 02103/02201; VA Assignment Code 3150/3190)

1 Credit

This year-long course will introduce the study of Trigonometry and Probability & Statistics. Trigonometry includes the study of

trigonometric definitions, applications, graphing, and solving trigonometric equations and inequalities. Probability & Statistics presents basic concepts and techniques for collecting and analyzing data, drawing conclusions, and making predictions. Applications and modeling are included throughout the course(s). Oral and written communication concerning the language of mathematics, logic of procedure, and interpretation of results should also permeate the course(s). The use of graphing calculators as well as DESMOS will be incorporated with other means of technology integration.

Graduation Requirements: This course may be used to fulfill the mathematics standard credit.

Prerequisites: Algebra I, Geometry

Algebra, Functions, & Data Analysis (Course Number – 02902; VA Assignment Code – 3134)

1 Credit

This course provides an opportunity for mathematical ideas to be developed in the context of real-world problems. Through classwork, homework, and projects, students will collect and analyze univariate and bivariate data using a variety of statistics and analytical tools. They will learn to attach functional algebra to statistics, allowing for the possibility of standardizing and analyzing data through the use of mathematical models. The course will use transformational graphing and the regression capabilities of online graphing calculators (DESMOS) to find regression equations, and they will use them to analyze data and to predict the placement of data points between and beyond given data points. Other instructional practices may be used including oral and written representations.

Graduation Requirements: This course may be used to fulfill the mathematics standard credit.

Prerequisites: Algebra I

AP Pre-Calculus (Course Number – AP02114; VA Assignment Code –N/A) 1 Credit (Eligible for Verified Credit)

Course content corresponds to the syllabus of the College Board Advanced Placement program. Students will utilize graphing

calculators, complete online activities, and various other technologies to gain knowledge of topics in precalculus. This AP course covers topics including the following: Polynomial rational functions, exponential and logarithmic functions, trigonometric and polar functions, as well as functions involving parameters, vectors and matrices. Students will learn how to approach pre-calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and how to make connections amongst these representations. College credit is given at the discretion of the institution accepting the student and is based on the student's score on the AP Exam. Students enrolled are expected to take the AP Exam, though the exam will not be available until Spring 2024.

Graduation Requirements: This course may be used to fulfill the mathematics standard credit.

Prerequisites: Algebra I, Geometry, Algebra II

**AP Calculus AB (Course Number – AP02124; VA Assignment Code – AP3177)
1 Credit (Eligible for Verified Credit)**

Course content corresponds to the syllabus of the College Board Advanced Placement program. Students will utilize graphing calculators, complete online activities, and various other technologies to gain knowledge of topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. Students will learn how to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and how to make connections amongst these representations. College credit is given at the discretion of the institution accepting the student and is based on the student's score on the AP Exam. Students enrolled are expected to take the AP Exam.

Graduation Requirements: This course may be used to fulfill the mathematics standard credit.

Prerequisites: Algebra I, Geometry, Algebra II, and Pre-Calculus or Math Analysis

**AP Calculus BC (Course Number – AP02125; VA Assignment Code – AP3177)
1 Credit (Eligible for Verified Credit)**

Course content corresponds to the syllabus of the College Board Advanced Placement program. Students will utilize graphing calculators, complete online activities, and various other technologies to gain knowledge of topics in differential and integral calculus. This AP course covers topics including the following: limits of continuity, definition and fundamental properties of derivatives, Chain rule, composite, implicit and inverse functions, contextual and analytical applications of differentiation of derivatives, the Fundamental Theorem of Calculus, differential equations, application of integration, parametric equations, polar coordinates, vector-valued function and infinite sequences and series. Students will learn how to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and how to make connections amongst these representations. College credit is given at the discretion of the institution accepting the student and is based on the student's score on the AP Exam. Students enrolled are expected to take the AP Exam.

Graduation Requirements: This course may be used to fulfill the mathematics standard credit.

Prerequisites: Algebra I, Geometry, Algebra II, Pre-Calculus or Math Analysis, and AP Calculus AB

**AP Computer Science A (Course Number – AP10157; VA Assignment Code – AP3185)
1 Credit**

Course content corresponds to the syllabus of the College Board Advanced Placement program. The goals of the course are application and teaching of concepts around the following: design, implement, and analyze solutions to problems; use and implement commonly used algorithms; use standard data structures; develop and select appropriate algorithms and data structures to solve new problems; write solutions fluently in an object-oriented paradigm; write, run, test, and debug solutions in the Java

programming language, utilizing standard Java library classes and interfaces from the AP Java subset; read and understand programs consisting of several classes and interacting objects; read and understand a description of the design and development process leading to such a program; understand the ethical and social implications of computer use. College credit is given at the discretion of the institution accepting the student and is based on the student's score on the AP Exam. Students enrolled are expected to take the AP Exam.

Graduation Requirements: This course may be used to fulfill the mathematics standard credit.

Prerequisites: Algebra I, Geometry

AP Computer Science Principles (Course Number – AP10019; VA Assignment Code – AP3183)

1 Credit

The AP Computer Science Principles course is designed to be equivalent to a first-semester introductory college computing course. In this course, students will develop computational thinking vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course is unique in its focus on fostering student creativity. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively while using computer software and other technology to explore questions that interest them. They will also develop effective communication and collaboration skills, working individually and collaboratively to solve problems, and discussing and writing about the importance of these problems and the impacts to their community, society, and the world.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Algebra I, Geometry

AP Statistics (Course Number – AP02203; VA Assignment Code – AP3192)

1 Credit

Course content corresponds to the syllabus of the College Board Advanced Placement program. Content includes topics in exploratory analysis, planning and conducting a study, probability, and statistical inference. Technology is integrated to encourage investigations of data analysis. College credit is given at the discretion of the institution accepting the student and is based on the student's score on the AP Exam. Students enrolled are expected to take the AP Exam. *Graduation Requirements: This course may be used to fulfill the mathematics standard credit.* *Prerequisites: Algebra I, Algebra 2, Geometry*

Geometry (Course Number – 02072; VA Assignment Code – 3143)

1 Credit (Eligible for Verified Credit)

This course is designed for students who have successfully completed the standards for Algebra I. Course emphasizes transformational geometry and measurement, theorems and properties, formal definitions of geometric terms, trigonometric relationships, geometric constructions, and reasoning to justify conclusions. Methods of justification will include paragraph proofs, two-column proofs, indirect proofs, coordinate proofs, algebraic methods, and verbal arguments. A variety of applications and some general problem-solving techniques, including algebraic skills, will be used to implement these standards using classwork, homework, project, etc. Graphing calculators (DESMOS), computers, graphing utilities, dynamic geometry software, and other appropriate technology tools may be used to assist in teaching and learning.

Graduation Requirements: This course may be used to fulfill the mathematics standard credit.

Prerequisites: Algebra I

Geometry Honors (Course Number – H02072; VA Assignment Code – H3143)

1 Credit (Eligible for Verified Credit)

Honors Geometry is a faster paced mathematics course for students who exhibit high mathematical ability and achievement while extending learning. The course may focus on performance tasks, integration of technology and/or collaborative projects.

Students will make connections and build relationships between algebra and arithmetic and geometry. Connections will also be made to other subject areas through practical applications. Students will focus on abstract and theoretical exploration collaboratively and independently. Honors Geometry includes the use of technology (such as, graphing calculators and DESMOS). Students enrolled in this course may be expected to take the Standards of Learning Geometry end of course assessment.

Graduation Requirements: This course may be used to fulfill the mathematics standard credit.
Prerequisites: Algebra I

Geometry Part I (Course Number – 02903-I; VA Assignment Code – 3144)* 1 Credit

This course presents the first semester in year 1 of a 2- year sequence integrating plane geometry with review of algebraic topics needed in geometry. Course focuses on an introduction to logic and proofs, basic structures of geometry, application of geometric concepts and skills in real world situations while developing problem-solving skills and the acquisition of mathematical vocabulary and symbols. Topics include reasoning and proof, lines and their relationships, triangles and their relationships and polygons and quadrilaterals. In order to develop critical thinking, integrated activities using graphing calculator and online graphing calculator (DESMOS), stations, classwork, homework and other learning avenues will be utilized. Graphing utilities, dynamic geometry software, and other relevant technology tools may be used when appropriate to support instruction, especially to allow students to explore graphical, numerical, and symbolic relationships.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Algebra I

**only SWD with Math deficits should be enrolled in courses with parts and credit accommodation must be included in the students IEP.*

Geometry - Part II (Course Number – 02903-II; VA Assignment Code – 3144)* 1 Credit (Eligible for Verified Credit)

This course presents the second semester in year 2 of a 2- year sequence. Course continues the focus on logic and proofs along with topics involving similarity, properties of transformations and area and volume. Investigations of properties of quadrilaterals, other polygons, circles, and three-dimensional figures using inductive and deductive reasoning will be explored. Other topics may be included and reviewed. In order to develop critical thinking, integrated activities using graphing calculator and online graphing calculator (DESMOS), stations, classwork, homework and other learning avenues will be utilized. Graphing utilities, dynamic geometry software, and other relevant technology tools may be used when appropriate to support instruction, especially to allow students to explore graphical, numerical, and symbolic relationships.

Graduation Requirements: This course may be used to fulfill the mathematics standard credit.

Prerequisites: Geometry – Part I

**only SWD with Math deficits should be enrolled in courses with parts and credit accommodation must be included in the students IEP.*

Intensified Algebra (Course Number – 02996-III; VA Assignment Code – 3199) 1 Credit

Intensified Algebra offers students the opportunity to develop and apply conceptual understanding while enhancing foundational mathematics skills required for successful completion of Algebra I. This course will offer additional direct teaching and learning opportunities by creating a double period version in conjunction with Algebra I. An online program may be utilized. The focused topics include review strategies for pre-algebra concepts and skills, as well as, variables and expressions; solving equations and inequalities; linear, quadratic and exponential functions; graphing and writing linear equations; systems of equations and inequalities; polynomials; factoring; statistics; and rational expressions. In order to develop

critical thinking skills, this course will be learned by integrating engaging activities using an online graphing calculator (DESMOS), classwork, homework, and other learning avenues.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Mathematical Analysis/Pre-Calculus (Course Number – 02104; VA Assignment Code – 3162)

1 Credit

This course covers many of the topics previously introduced in Algebra II but in much greater depth with an emphasis on functions. Students are introduced to several other types of functions including polynomials, logarithmic and exponential, and circular and trigonometric. Students work with complex numbers and with the polar coordinate system. The concept of limits is introduced through analysis of sequence and series. Limits of functions are introduced and applied to the development of the derivative. Basic differential calculus and its applications are introduced as well. The course emphasizes problem solving and analysis by integrating the use of technology, including the graphing calculator (DESMOS) and other computer-based applications.

Graduation Requirements: This course may be used to fulfill the mathematics standard credit.

Prerequisites: Algebra II

Mathematical Analysis/Pre-Calculus Honors (Course Number – H02104; VA Assignment Code – H3162)

1 Credit

Honors Mathematical Analysis develops students' understanding of algebraic and transcendental functions, parametric and polar equations, sequences and series, and vectors. The content of this course serves as appropriate preparation for a calculus course. Students may be expected to participate in the completion of performance tasks and projects. This course covers many of the topics previously introduced in Algebra II but in much greater depth with an emphasis on

functions. Students are introduced to several other types of functions including polynomials, logarithmic and exponential, and circular and trigonometric. Students work with complex numbers and with the polar coordinate system. The concept of limits is introduced through analysis of sequence and series. Limits of functions are introduced and applied to the development of the derivative. Basic differential calculus and its applications are introduced as well. The course emphasizes problem solving and analysis by integrating the use of technology, including the graphing calculator (DESMOS) and other computer-based applications.

Graduation Requirements: This course may be used to fulfill the mathematics standard credit.

Prerequisites: Algebra II

Probability & Statistics (Course Number – 02201; VA Assignment Code – 3190)

1 Credit

The purpose of the course is to present basic concepts and techniques for collecting and analyzing data, drawing conclusions, and making predictions. Students will plan and conduct experiments, apply hypothesis testing and conduct both large sample significance tests. Course will cover finding means and variances of random variables, simulate binomial and geometric probability distributions, interpret sampling distributions and understand the Central Limit Theorem. This includes applying t-distributions to single and two-sample t-procedures, using tables or graphing. Students in the year-long class will use statistical inference to draw conclusions about a population based on sample data and use probability to determine the reliability of the conclusions. Graphing utilities (calculators, computers, and other technology tools) will be used to assist in teaching and learning. Graphing utilities facilitate visualizing, analyzing, and understanding algebraic and statistical behaviors and provide a powerful tool for solving and verifying solutions.

Graduation Requirements: This course may be used to fulfill the mathematics standard credit.

Prerequisites: Algebra I, Geometry

Richmond Technical Center (courses available only at this location)

Agricultural Education

Small Animal Care I (Course Number – 18102-I; VA Assignment Code – 8083)

1 Credit

Students learn how to care for and manage small animals, focusing on instructional areas in animal health, nutrition, management, reproduction, and evaluation. Course content also includes instruction in the tools, equipment, and facilities for small animal care, and provides activities to foster leadership development. Live animal handling may occur. FFA, SAE, or related student organization activities are encouraged. This course will use a combination of technology, hands-on labs, and lecture to distribute information.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Small Animal Care II (Course Number – 18102-II; VA Assignment Code – 8084)

1 Credit

Students develop their skills in the training and grooming of companion animals, focusing on specific needs of various breeds. Instruction includes handling animals and grooming/caring for coats, as well as technical and maintenance functions related to animal health. Live animal handling will occur. The course also includes technical office management instruction and affords students the opportunity to practice leadership skills. FFA, SAE, or related student organization activities are encouraged. This course will use a combination of technology, hands-on labs, and lecture to distribute information.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Small Animal Care I

Veterinary Science I (Course Number – 18105-I; VA Assignment Code – 8088)

1 Credit

This course prepares students for post-secondary education and/or careers in veterinary medicine or related fields. Students develop their skills in anatomy, nutrition, medical terminology, sanitation, clinical exams, and handling animals. Live animal handling may occur. Course content also includes facility maintenance, and office functions, as well as safety practices. The National FFA Organization, Supervised Agricultural Experience (SAE), or related student organization activities are encouraged.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Veterinary Science II (Course Number – 18105-II; VA Assignment Code – 8089)

1 Credit

Students expand their knowledge of animal science and the care of animals, including animal structure and function, microbes and disease prevention, parasitology, and genetics and breeding. Students develop more advanced skills and techniques for assisting the veterinarian/technician in the following areas: performing first aid and surgery, applying aseptic techniques, performing technical functions, administering medication, handling death and dying, working with wildlife, and performing office functions. On-the-job clinical instruction coordinated by the instructor may be included in veterinary offices or animal clinics. This course will use a combination of technology, hands-on labs, and lecture to distribute information.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Veterinary Science I

Business and Information Technology

Advanced Entrepreneurship (Course Number – 12053-II; VA Assignment Code – 9094)

1 Credit

This course is designed for students who wish to concentrate on advanced strategies for entrepreneurship, building upon concepts introduced in Entrepreneurship (12053-I). The focus of the course is on development of a business plan and small business management. Students will establish, market, and maintain a business.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

*Prerequisites: Entrepreneurship
Cooperative Education Available*

Cybersecurity Fundamentals (Course Number – 10302- I; VA Assignment Code – 6302)

1 Credit

Cybersecurity affects every individual, organization, and nation. This course focuses on the evolving and pervasive technological environment with an emphasis on securing personal, organizational, and national information. Students will be introduced to the principles of cybersecurity, explore emerging technologies, examine threats and protective measures, and investigate the diverse high-skill, high-wage, and high-demand career opportunities in the field of cybersecurity. Exciting opportunities will be presented to use interactive current resources in the study of cybersecurity such as Virginia Cyber Range, Virginia Space Grant Consortium, and Cyber.Org. Students will have the opportunity to prepare for success on related industry certifications aligned to the course content.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

*Prerequisites: None
Cooperative Education Available*

Cybersecurity Systems Technology (Course Number - 10109-III VA; Assignment Code 8628)

1 Credit

Students enter the world of computer networking and learn to troubleshoot networks and networking devices, using system tools and diagnostic software. They

develop skills in computer networking, resource sharing, and associated security risks. In addition, students explore the relationships between internal and external computer components.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Cybersecurity Fundamentals

Entrepreneurship (Course Number – 12053-I; VA Assignment Code – 9093)

1 Credit

This course introduces students to the exciting world of creating, owning, and launching their own business. Students will learn concepts and techniques for planning an entrepreneurial venture, using design thinking and business model development. Students will learn about financial statements, marketing principles, sales and customer service, and basic economic principles for successful operation.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

*Prerequisites: None
Cooperative Education Available*

Family and Consumer Services

Baking and Pastry Specialization (Course Number -16052-III; VA Assignment Code - 8279)

1 credit

The Culinary Arts Specialization course provides students with skills and knowledge to pursue careers in the food service industry. In a hands-on environment, students apply nutritional principles, plan menus, use business and mathematics skills, select and maintain food service equipment, and adhere to safety and sanitation standards.

The curriculum continues to place a strong emphasis on science and mathematics knowledge and skills, critical thinking, practical problem-solving, and entrepreneurial opportunities within the field of culinary arts.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Culinary Arts I

Culinary Arts I (Course Number – 16052-I; VA Assignment Code – 8275)

2 Credits

Culinary Arts I provides students with a foundational understanding of the food service industry and opportunities to build technical skills in food preparation and service. Students examine basic rules of kitchen safety and sanitation, of purchasing and receiving, and of fundamental nutrition. The curriculum incorporates math and science in culinary applications.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Introduction to Culinary Arts

Culinary Arts II (Course Number – 16052-II; VA Assignment Code – 8276)

2 Credits

Culinary Arts II students continue to acquire a comprehensive knowledge of the food service industry while refining their technical skills. Students apply kitchen safety and sanitation, nutritional principles, and advanced food-preparation techniques. Students complete work-based learning in venues such as the à la carte kitchen, the dining room, and catered functions. This course will use a combination of technology and lecture to distribute information.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Culinary Arts I

Restaurant Operation Specialization (Course Number - 16052-VI, VA Assignment Code - 8274)

1 credit

The Culinary Arts Specialization course provides students with skills and knowledge to pursue careers in the food service industry. In a hands-on environment, students apply nutritional principles, plan menus, use business and mathematics skills, select and

maintain food service equipment, and adhere to safety and sanitation standards.

The curriculum continues to place a strong emphasis on science and mathematics knowledge and skills, critical thinking, practical problem-solving, and entrepreneurial opportunities within the field of culinary arts.

This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Culinary Arts I

Health and Medical Sciences

Emergency Medical Responder (Course Number - 14055-IV; VA Assignment Code – 8336)

1 Credit

The Emergency Medical Responder (EMR) course prepares the EMR student to provide immediate life-saving interventions for patients of all ages while awaiting additional emergency medical services (EMS) resources. Areas of study include an introduction to EMS systems, roles and responsibilities of the EMR, anatomy and physiology, medical emergencies, trauma, and special considerations for working in the pre-hospital setting. Students must complete a minimum of 85 percent of the didactic and lab aspects of the course, per 2VAC5-31-1501 in the Code of Virginia. Successful completion of all course requirements and instructor endorsement may lead to eligibility to take the Virginia State Psychomotor Exam and the National Registry of Emergency Medical Technicians (NREMT) EMR cognitive exam. Students must meet the requirements of the Functional Position Description for the Basic Life Support Provider (refer to EMS.TR.14B and 12VAC5-31-1501 in the Code of Virginia). NOTE: Students must be 16 years old or older to take this course. All students will need to undergo a criminal background check that includes fingerprinting and drug screening.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Emergency Medical Technician I (Course Number – 14055-I; VA Assignment Code – 8333)

1 Credit

The tasks for this course represent the National and Virginia Emergency Medical Services (EMS) Educational Standards. Students explore and apply the fundamentals of EMS, anatomy, physiology, and medical terminology while demonstrating skills in assessing and managing patient care, including assessing the scene and understanding shock, resuscitation, and trauma. Successful completion of this course and instructor endorsement qualifies students to enroll in EMT II to complete the program sequence. Students must complete a minimum of 85 percent of the didactic and lab aspects of the course, per 12VAC5-31-1501 in the Code of Virginia. Successful completion of all course requirements and instructor endorsement may lead to eligibility to take the Virginia State Psychomotor Exam and the National Registry of Emergency Medical Technicians (NREMT) cognitive exam. Students must meet the requirements of the Functional Position Description for the Basic Life Support Provider (refer to EMS.TR.14B and 12VAC5-31-1501 in the Code of Virginia). NOTE: Students must be at least 16 years old prior to the first day of EMT instruction. All students will need to undergo a criminal background check that includes fingerprinting and drug screening.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Emergency Medical Technician II (Course Number – 14055-II; VA Assignment Code – 8334)

1 Credit

The tasks for this course represent the National and Virginia Emergency Medical Services (EMS) Educational Standards. Students build on their knowledge and skills for providing basic life support by focusing on the areas of EMS operations, medical emergencies, and management of special

patient populations. Supervised field experience that includes at least 10 patient contacts outside of school hours is required. Successful completion of this second course in the sequence will earn the student CTE completer status. Successful completion of all course requirements and instructor endorsement may lead to eligibility to take the Virginia State Psychomotor Exam and the National Registry of Emergency Medical Technicians (NREMT) cognitive exam. Students must meet the requirements of the Functional Position Description for the Basic Life Support Provider (refer to EMS.TR.14B and 12VAC5-31-1501 in the Code of Virginia). Students must complete a minimum of 85 percent of the didactic and lab aspects of the course, per 12VAC5-31-1501 in the Code of Virginia.

NOTE: Students must be at least 16 years old prior to the first day of EMT instruction. All students will need to undergo a criminal background check that includes fingerprinting and drug screening.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Emergency Medical Technician I

Emergency Medical Telecommunications (Course Number – 14055-V; VA Assignment Code – 8337)

1 Credit

Emergency Medical Telecommunications is designed to provide the beginning telecommunicator with an understanding of situations encountered in an emergency communications environment. The student will be able to summarize issues involving the telecommunicator's role and responsibilities as a member of the health and public safety environment. The student will also be able to summarize issues involving resources available to a telecommunicator, the importance of maintaining confidentiality, and liability and legal issues involving emergency telecommunicators and their agencies. The student will be able to describe the process of stress management, inside and outside a communications department/center. The student will develop the entry-level skills

needed in a telecommunications environment for rescue, fire, and police.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Human Body Systems (Course Number – 14251; VA Assignment Code – 8380)

1 Credit

In this specialization course for Project Lead the Way (PLTW), students explore the human body systems of communication, power, and movement. To do this, students are taught the body's components, tissues, molecules, and cells, as well as concepts of homeostasis and body system defenses.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisite: Principles of the Biomedical Sciences, PLTW

Introduction to Health & Medical Sciences (36 Weeks) (Course Number – 14001-II; VA Assignment Code – 8302)

1 Credit

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

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Medical Laboratory Technology I (Course Number – 14102-I; VA Assignment Code – 8377) (Pending VDOE Approval)

1 Credit

Medical Laboratory Technology I gives students an overview of the clinical lab, hematology, urinalysis, and clinical chemistry. Students gain foundational knowledge and skills appropriate for a variety of medical-related career paths in the field of medical laboratory technology. They are introduced to diagnostic and therapeutic laboratory procedures that support medical practice and research, and investigate safety, quality assurance, and ethical concerns associated with the field of medical laboratory technology.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Medical Laboratory Technology II (Course Number – 14102-II; VA Assignment Code – 8378) (Pending VDOE Approval)

2 Credits

In this hands-on course, students perform tests normally seen in the clinical setting as they build on the foundational knowledge and skills obtained in Medical Laboratory Technology I. The students will use the basic principles necessary to perform competently in the areas of clinical microbiology, immunohematology, and immunology/serology, coagulation/hemostasis, and molecular diagnostics. Competency includes performing the technique correctly, understanding the theory of the procedures, and interpreting the results. Contextual instruction and student participation in co-curricular career and technical student organization (CTSO) activities will develop leadership, interpersonal, and career skills. High-quality work-based learning (HQBWL) will provide experiential learning opportunities related to students' career goals and/or interests, integrated with instruction, and performed in partnership with local businesses and organizations.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Medical Laboratory Technology I

**Medical Terminology (Course Number – 14154-II; VA Assignment Code – 8383)
1 Credit**

Medical Terminology is designed to help students learn common medical terms essential for safe patient care. Topics are presented in logical order, beginning with each body system's anatomy and physiology and progressing through pathology, laboratory tests and clinical procedures, therapeutic interventions, and pharmacology. Students learn concepts, terms, and abbreviations for each topic.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Recommended Prerequisites: Introduction to Health and Medical Sciences

Nurse Aide I (Course Number – 14051-I; VA Assignment Code – 8360)

2 Credits

Nurse Aide I, offered as an occupational preparation course beginning at the 11th-grade level, is regulated under the Virginia Board of Nursing. It emphasizes the study of nursing occupations as related to the healthcare system. Students study growth and development across the lifespan, simple body structure and function, and medical terminology. They are introduced to concepts of infection prevention and disease processes. Students receive entry-level skill training in patient & nurse aide relationships, measuring and recording of vital signs, cardiopulmonary resuscitation, and general patient care. Work-based learning may be offered as part of this course. The Nurse Aide I course introduces students to careers in nursing, health professions, and STEM-H professions. Students must maintain American Heart Association's Cardiopulmonary Resuscitation (CPR) & Emergency Cardiovascular Care (ECC) training during this course. The program must be completed in entirety to include both classroom and clinical

portions of the program. Further, pursuant to regulation (18VAC90-263-50 (C)(3)), clinical must include a minimum of 40 hours of direct client care and only 5 of those hours are permitted to be in a setting other than geriatric long term care.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Some healthcare facilities that accept federal funding (e.g., Medicare, Medicaid) may require criminal background checks and drug screens for students participating in a clinical experience. An updated immunization record will be required prior to the student participating in the clinical experience.

Nurse Aide II (Course Number – 14051-II; VA Assignment Code – 8362)

2 Credits

Nurse Aide II is an occupational preparation course emphasizing body systems and diseases as related to advanced clinical care of the acute medical-surgical patient, the chronically ill, and the elderly. Students receive skills training and hands-on clinical experiences in a healthcare setting.

Work-based learning in a healthcare facility is part of the course. Students must maintain American Heart Association's Cardiopulmonary Resuscitation (CPR) & Emergency Cardiovascular Care (ECC) training during this course. This course requires students to meet the Virginia Board of Nursing required clock hours to be eligible to take the National Nurse Aide Assessment Program (NNAAP) exam. Additionally, this course includes the approved opiate competencies for health and medical sciences education. The program must be completed in entirety to include both classroom and clinical portions of the program. Further, pursuant to regulation (18VAC90-263-50 (C)(3)), clinical must include a minimum of 40 hours of direct client care and only 5 of those hours are permitted to be in a setting other than geriatric long term care.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a

standard credit course.

Prerequisites: Nurse Aide I

Some healthcare facilities that accept federal funding (e.g., Medicare, Medicaid) may require criminal background checks and drug screens for students participating in a clinical experience. An updated immunization record will be required prior to the student participating in the clinical experience.

Pharmacy Technician I (Course Number – 14152-I; VA Assignment Code – 8305) 1 Credit

This certificate program is designed to provide students with the basic skills and knowledge to begin work as a pharmacy technician. The coursework will fulfill the requirements of the Virginia Board of Pharmacy and prepare students to take the national examinations, the Certified Pharmacy Technician (CPhT) Examination from the Pharmacy Technician Certification Board (PTCB) or the Examination for Certification of Pharmacy Technicians (ExCPT) from the National Healthcareer Association (NHA). Trained, experienced pharmacy technicians, who can demonstrate the right skills and knowledge, have many exciting and respected career options and are well-positioned to pursue postsecondary study in the pharmacy field.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Pharmacy Technician II (Course Number – 14152-II; VA Assignment Code – 8306) 2 Credits

This certificate program is designed to provide students with the basic skills and knowledge to begin work as a pharmacy technician. The coursework will fulfill the requirements of the Virginia Board of Pharmacy and prepare students to take national examinations, the Certified Pharmacy Technician (CPhT) Examination from the Pharmacy Technician Certification Board (PTCB) or the Examination for Certification of Pharmacy Technicians (ExCPT) from the National Healthcareer Association (NHA).

Trained, experienced pharmacy technicians who can demonstrate the right skills and knowledge, have many exciting and respected career options, and are well-positioned to pursue postsecondary study in the pharmacy field.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Pharmacy Technician I

Principles of the Biomedical Sciences (Course Number – 14254; VA Assignment Code – 8379)

1 Credit

In this specialization course for Project Lead the Way (PLTW), students are taught concepts of forensic inquiry, DNA and inheritance, and the function of human body systems, exploring the body through diseases, such as those leading to diabetes and heart, sickle cell, and infectious diseases. Students also explore medical interventions, postmortem examination, bioprocessing, bioinformatics, and concepts of microbiology and genetic engineering.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Radiologic Technology I (Course Number – 14105-I; VA Assignment Code – 8375) (Pending VDOE Approval)

1 Credit

Students will gain a basic understanding of the historical development and role of a radiologic technologist within the healthcare setting, as well as obtain basic knowledge of human anatomy, physiology, basic disease processes, and the essentials of patient care. This course will also explain the legal, ethical, and professional responsibilities associated with becoming a radiologic technologist, while emphasizing the importance of good communication and critical-thinking skills. Mastery of the material in this course would provide students with a strong background should they wish to pursue certification in areas such as first aid, CPR, or AED.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Radiologic Technology II (Course Number – 14105-II; VA Assignment Code – 8376)
(Pending VDOE Approval)

2 Credits

Students will identify the basic components and functions associated with radiologic equipment and develop a scientific understanding of the technical factors and physical concepts required to produce and evaluate quality images. They will practice the use of radiation protection techniques, such as the as low as reasonably achievable (ALARA) principle, and explore imaging modalities. Students will also investigate career opportunities and the processes to obtain and maintain professional certifications within the field of imaging sciences.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Radiologic Technology I

Technology Education

Energy and Power (Course Number – 20101-36; VA Assignment Code – 8448)

1 Credit

In this course, students analyze energy sources and explore the generation, transmission, and distribution of electricity using the Energy Industry fundamentals modules from the Center for Energy Workforce Development (CEWD). The course provides math, science, and technical writing skills through hands-on application. Students have an opportunity to take the Energy Industry Fundamentals Certificate Assessment.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Engineering Design & Development PLTW (Course Number - 21007; VA Assignment Code 8443)

1 Credit

In this capstone course in Project Lead the Way (PLTW), teams of students, guided by community mentors, work together to research, design, and construct solutions to engineering problems. Students synthesize knowledge, skills, and abilities through an authentic engineering experience. Students are expected to develop and formally present an independent-study project and a team-oriented project that are critiqued by an evaluation committee.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course

Prerequisite: 8439 Introduction to Engineering Design PLTW

Engineering Explorations I - (Course Number 21005-I; VA Assignment Code 8450)

1 Credit

In Engineering Explorations I, students examine technology and engineering fundamentals in relation to solving real-world problems. Students investigate engineering history, including major engineering achievements, and they examine the principal engineering specialty fields and their related careers. Students practice engineering fundamentals, using mathematical and scientific concepts, and they apply the engineering design process through participation in hands-on engineering projects. Students communicate project-related information through team-based presentations, proposals, and technical reports.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Engineering Analysis and Applications II (Course Number –21016; VA Assignment Code – 8451)

1 Credit

The second of a possible four-course sequence that will allow students to apply the engineering design process to areas of the designed world, explore ethics in a technological world, and examine

engineering systems. Students will 3 participate in STEM-based, hands-on projects as they communicate information through team-based presentations, proposals, and technical reports.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course
Prerequisites: Engineering Explorations I

Engineering Concepts and Processes III
 (Course Number –21005-II;
 VA Assignment Code – 8452)

1 Credit

The third course of a four-course sequence that will enable students to solve real-world problems. This course focuses on building an engineering 3 team, working with case studies, managing projects, delivering formal proposals and presentations, and examining product and process trends. In addition, students continue to apply their engineering skills to determine what postsecondary education engineering pathway they want to follow. Students will participate in STEM-based, hands-on projects as they communicate information through team-based presentations, proposals, and technical reports.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.
Prerequisites: Engineering Analysis and Applications II

Engineering Practicum IV (Course Number – 21047; VA Assignment Code – 8453)

1 Credit

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 a variety of engineering specialty fields and related careers to determine whether they are good candidates for postsecondary educational opportunities in engineering.

Graduation Requirements: This course may be used to fulfill one standard credit in laboratory science.

Prerequisites: Engineering Analysis and Applications II, Engineering Studies, Principles of Engineering (PLTW)

Civil Engineering & Architecture PLTW
 (Course Number – 21021; VA Assignment Code – 8430)

1 Credit

In this specialization course for Project Lead the Way (PLTW), students collaborate on both the development of community-based building and design projects and conceptual design for project presentations.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Introduction to Engineering Design (PLTW)

Introduction to Engineering Design PLTW
 (Course Number – 21017; VA Assignment Code – 8439)

1 Credit

In this foundation course in Project Lead the Way (PLTW), students use 3-D computer modeling software as they learn the engineering-design process and solve design problems for which they develop, analyze, and create product models.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Principles of Engineering PLTW (Course Number – 21018; VA Assignment Code – 8441)

1 Credit

In this Project Lead the Way (PLTW) course, students explore the engineering profession and the fundamental aspects of engineering problem solving. Students study the historical and current impacts of engineering on society, including ethical implications. Mathematical and scientific concepts will be applied to fundamental engineering topics, including mechanics and electrical-circuit theory.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Introduction to Engineering Design (PLTW)

Software Engineering Essentials PLTW (Course Number – 10015-I; VA Assignment Code – 8473)

1 Credit

Students will experience the major topics, big ideas, and computational thinking practices used by computing professionals to solve problems and create value for others. This course will empower students to develop computational thinking skills while building confidence that prepares them to advance to computer science principles and computer science.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Software Engineering PLTW - (Course Number 10015-II; VA Assignment Code 8470)

1 Credit

This Project Lead the Way course aims to develop students' computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cyber security, and simulation.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisite: 8473 Software Engineering Essentials PLTW

Renewable Energy - (Course Number 17105; VA Assignment Code 8408)

1 Credit

Renewable energy sources are steadily becoming more important in the global economy as nations strive to replace fossil fuels with eco-friendly power. In this course,

students will explore select renewable energy technologies, gain hands-on experience in their design and function, and practice installation skills.

Graduation Requirements: This is a CTE Completer Sequence

Prerequisites: Unmanned Aircraft Systems

Unmanned Aircraft Systems (Course Number 20905-I-36; VA Assignment Code 8910 –) (Application for Course is Pending)

1 Credit

Unmanned Aircraft Systems prepares students to fly drones under the Federal Aviation Administration's (FAA)

Part 107 guidelines. Students get an overview of the national airspace system, FAA regulations, and the design and operation of small drones, and performance of small drones and coordinate flight operation logistics. They perform administrative tasks, train to fly, and finally fly small unmanned aircraft systems (SUAS). Contextual instruction and student participation in co-curricular career and technical student organizations (CTSO) activities will develop leadership, interpersonal, and career skills. High-quality work-based learning (HQWBL) will provide experiential learning opportunities related to students' career goals and/or interests, integrated with instruction, and performed in partnership with local business organizations.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Advanced Unmanned Aircraft Systems (Course Number 20905-II-36ADV; VA Assignment Code 8910 –) (Application for Course is Pending)

1 Credit

Part II of Unmanned Aircraft Systems - Details are TBA once VDOE releases them.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Technology of Robotic Design (Course Number - 21009;VA Assignment Code 8421) (Pending VDOE Approval)

1 Credit

Students engage in the study of computers and microprocessors and their applications to manufacturing, transportation, and communication systems. Topics include computer equipment and operating systems, robotics, programming, control systems, and social/cultural impact of these technologies. Problem-solving activities challenge students to design, program, and interface devices with computer systems. Learning activities include robotics, computer-aided design, computer-aided manufacturing and design, and control of electromechanical devices.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Trade and Industrial

Auto Body Technology I (Course Number – 20117-I; VA Assignment Code – 8676)

1 Credit

In the global automobile collision repair industry, there is a growing demand for qualified auto body technicians. In this course, students are taught damage analysis, estimating, customer service, non-structural analysis, damage repair, and welding. Students work with a variety of materials, using metal finishing and body filling techniques to prepare surfaces and repair panels. Students who successfully complete this program sequence may be eligible to take an industry recognized certification exam. Auto Body Technology I is closely aligned with the 2022 ASE Education Foundation collision repair and refinish program standards.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Auto Body Technology II (Course Number – 20117-II; VA Assignment Code – 8677)

2 Credits

In the global automobile collision repair industry, there is a growing demand for qualified auto body technicians. In this course, students are taught painting and refinishing techniques that include surface preparation, spray gun and related equipment operation, paint mixing, matching, and applying, and final vehicle detailing. Students who successfully complete this program sequence may be eligible to take an industry recognized certification exam. Auto Body Technology II is aligned with the 2022 ASE Education Foundation collision repair and refinish program standards.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Auto Body Technology I

Automotive Technology I (Course Number – 20104-I; VA Assignment Code – 8506)

2 Credits

In this course, students explore, handle, and perform basic functions in engine repair, automatic transmission and transaxle, manual drivetrain and axles, suspension and steering systems, and brakes. Students who successfully complete the Automotive Technology program may be eligible to take the Automotive Service Excellence (ASE) Student Certification examination. The ASE Student Certification is the first step in building a career as a service professional in the automotive industry. Automotive Technology I and II are closely aligned with the 2017 ASE Education Foundation automobile program standards for Maintenance and Light Repair (MLR).

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Automotive Technology II (Course Number – 20104-II; VA Assignment Code – 8507)

2 Credits

In this course, students build upon their basic knowledge of automotive technology, exploring more advanced tasks in engine repair, automatic transmission and transaxle, manual drivetrain and axles,

suspension and steering systems, and brakes. They also learn about electrical, electronic, and HVAC systems in automobiles.

Upon successful completion of the course, students may be eligible to take the Automotive Service Excellence (ASE) Student Certification examination. Automotive Technology I and II are closely aligned with the 2017 ASE Education Foundation automobile program standards for Maintenance and Light Repair (MLR).

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Automotive Technology I

Aviation Maintenance Technology I (Course Number 20114-I; VA Assignment Code-8728)

2 Credits

Students will work with airframe and control surfaces, power plants, and basic aviation electricity, and perform ground operations and servicing procedures, as specified by Federal Aviation Administration (FAA) requirements. Students will also practice lab and tool safety, apply science and mathematics principles to aviation maintenance tasks and research and use maintenance publications, forms, and records.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Aviation Maintenance Technology II (Course Number 20114-II; VA Assignment Code-8729)

2 Credits

Students will explore design features of aircraft through drawings and blueprints. Students will investigate aircraft materials and process, weight and balance procedures, and fluid lines fittings. Additionally, students will learn care and maintenance. Techniques (such as how to identify and correct corrosion), practice lab and tool safety, and apply academic principles while working with aircraft.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Aviation Maintenance Technology I

Carpentry I (Course Number – 17003-I; VA Assignment Code – 8601)

1 Credit

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

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Carpentry II (Course Number – 17003-II; VA Assignment Code – 8602)

2 Credits

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

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Carpentry I

Cybersecurity Systems Technology (Course Number 10109-III; VA Assignment Code

8628) (Pending Approval)**1 Credit**

Students enter the world of computer networking and learn to troubleshoot networks and networking devices, using system tools and diagnostic software. They develop skills in computer networking, resource sharing, and associated security risks. In addition, students explore the relationships between internal and external computer components.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Cybersecurity Fundamentals

Advanced Cybersecurity Systems Technology (Course Number – 10109-IV; VA Assignment Code – 8629) (Pending VDOE Approval)

2 Credits

This advanced course provides students with training in procedures for optimizing and troubleshooting concepts for computer systems, subsystems, and networks. Students explore the following:

- Basic network design and connectivity
- Network documentation
- Network limitations and weaknesses
- Network security, standards, and protocols

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

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Cybersecurity Systems Technology

Cosmetology I (Course Number – 19101-I; VA Assignment Code – 8527)

2 Credits

In this introductory course, students study hair, skin, nails and their related care.

Students are grounded in theory as they prepare to practice procedures in a clinical lab setting or classroom, using mannequins for manipulative skill practice. The first-year course emphasizes personal safety, professionalism, and sanitation and disinfection of equipment and facilities. Students develop skills in shampooing and conditioning hair, as well as styling and cutting hair. They are introduced to hair coloring and chemical texture services and develop skills in manicure and pedicure procedures. Cosmetology students must satisfy a minimum of 840 hours of instruction in a three-year coherent sequence of courses to be eligible to take the Board for Barbers and Cosmetology licensing examination. Upon successful completion of the program, students may earn the Virginia Board for Barbers and Cosmetology license.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Cosmetology II (Course Number – 19101-II; VA Assignment Code – 8528)

2 Credits

In this continuing course, students build on their theoretical foundation of general sciences and practices in cosmetology to increase proficiency in hair cutting and styling on live models, with attention to professionalism, client consultation, safety, and infection control. Students are trained in safe chemical processes related to permanent waves, relaxers, lightening, and coloring hair. In addition, students learn to care for skin, hands, and feet, developing experience in providing facials, manicures, pedicures, and nail enhancements. Students will be introduced to a business management unit with a focus on managing the salon. Cosmetology students must satisfy a minimum of 840 hours of instruction in a three-year coherent sequence of courses to be eligible to take the Board for Barbers and Cosmetology licensing examination. Upon successful completion of the program, students may earn the Virginia Board for Barbers and Cosmetology license.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Cosmetology I

**Cosmetology III (Course Number – 19101-III; VA Assignment Code – 8529)
2 Credits**

In this advanced course, students build on their theoretical foundation of general sciences and practices in cosmetology to increase proficiency in hair cutting and styling on live models, with attention to professionalism, client consultation, safety, and infection control. Students are trained in safe chemical processes related to chemical texture services and advanced hair coloring techniques. They also develop artistic skills with wigs and hair additions. In addition, students learn to care for skin, hands, and feet, developing experience in providing facials, manicures, pedicures, and nail enhancements. An advanced business management unit focuses on managing the salon. Competency completion prepares the student for the Virginia State Licensing Exam. Cosmetology students must satisfy a minimum of 840 hours of instruction in a two- or three-year coherent sequence of courses to be eligible to take the Board for Barbers and Cosmetology licensing examination. Upon successful completion of the program, students may earn the Virginia Board for Barbers and Cosmetology license.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Cosmetology II

**Criminal Justice I (Course Number – 15051-I; VA Assignment Code – 8702)
1 Credit**

Students are introduced to law, public safety, corrections, and security practices. Students examine contemporary issues in the criminal justice system and explore crime scene investigation, criminal investigation, court procedures, policing, and juvenile justice. This course provides a foundation for careers as lawyers, as forensics specialists,

and as law enforcement and corrections officers.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

**Criminal Justice II (Course Number – 15051-II; VA Assignment Code – 8703)
2 Credits**

Students apply knowledge learned in Criminal Justice I through practical scenarios involving crime scene investigation, criminal investigation, and crisis intervention. Students explore trends in correctional standards and in identifying and preventing terror threats. This course prepares students for careers as lawyers, forensics specialists, and law enforcement and corrections officers.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Criminal Justice I

**Electricity I (Course Number – 17102-I; VA Assignment Code – 8533)
1 Credit**

Students develop fundamental electrical skills to help them prepare for a career in the installation, operation, maintenance, and repair of residential, commercial, and industrial systems. Students will engage in hands-on activities in a lab setting. They will be introduced to residential wiring of houses and apartments, commercial wiring of retailers, schools, businesses, and hospitals, and industrial wiring of factories.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

**Electricity II (Course Number – 17102-II; VA Assignment Code – 8534)
2 Credits**

Students will continue to develop skills in the installation, operation, maintenance, and repair of residential, commercial, and industrial electrical systems. Students will also study electrical theory and mathematical problems related to electricity, apply

requirements of the National Electrical Code (NEC) Book, select and install conductors, examine lighting, communication, and power systems, and work with conduit and raceways, panelboards, switchboards, grounding systems, and generators.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Electricity I

Graphic Imaging Technology I (Course Number-11154-I; VA Assignment Code – 8660)

1 Credit

Graphic Imaging Technology I introduces students to the graphic communications industry. Students gain an overview of digital file preparation, image capture, color theory, digital file output, press operations, and bindery operations. Students learn to practice workplace safety and develop skills in measurement, mathematical problem-solving, interpersonal communication, and the job application process. Graphic imaging technology programs must be accredited by PrintEd, administered by the Graphic Arts Education and Research Foundation (GAERF).

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Graphic Imaging Technology II (Course Number-11154-II; VA Assignment Code – 8661)

2 Credits

Graphic Imaging Technology II prepares students for a career in the graphic communications industry. Students gain knowledge and skills in digital file preparation and output. Graphic Imaging Technology programs must be accredited by PrintEd, administered by the Graphic Arts Education and Research Foundation (GAERF).

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Graphic Imaging Technology I

Master Barber I (Course Number – 19102-I; VA Assignment Code – 8740)

2 Credits

This introductory course is designed for students pursuing a career as a master barber. Students will demonstrate knowledge and skills in a clinical lab setting, using mannequins and live models for manipulative practice. The program emphasizes personal safety, professionalism, scalp and hair care, hair cutting, styling, lightening and coloring, shaving, and barbershop management. Barbering students must satisfy a minimum of 840 hours of instruction in a two- or three-year coherent sequence of courses to be eligible to take the Board for Barbers and Cosmetology licensing examination. Upon successful completion of the program, students may earn the Virginia Board for Barbers and Cosmetology license.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Master Barber II (Course Number – 19102-II; VA Assignment Code – 8741)

2 Credits

This course is designed to build on the knowledge and skills from Master Barbering I. Students will apply their knowledge skills in a clinical lab setting, using mannequins and live models for manipulative practice. The program emphasizes skills in the areas of safety, professionalism, hair cutting, styling, shaving, barbershop management, and chemical service procedures. Barbering students must satisfy a minimum of 840 hours of instruction in a two- or three-year coherent sequence of courses to be eligible to take the Board for Barbers and Cosmetology licensing examination. Upon successful completion of the program, students may earn the Virginia Board for Barbers and Cosmetology license.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Master Barber I

Master Barber III (Course Number – 19002-III; VA Assignment Code – 8742)
2 Credits

In this advanced course, students build on their theoretical foundation of general sciences and practices in barbering to increase proficiency in hair cutting and styling on live models, with attention to professionalism, client consultation, safety, and infection control. Students are trained in safe chemical processes related to chemical texture services and advanced hair coloring techniques. They also develop artistic skills with wigs and hair additions. An advanced business management unit focuses on creating a barbershop business plan prepares the student for the Virginia state licensing exam.. Barbering students must satisfy a minimum of 840 hours of instruction in a two- or three-year coherent sequence of courses to be eligible to take the Board for Barbers and Cosmetology licensing examination. Upon successful completion of the program, students may earn the Virginia Board for Barbers and Cosmetology license.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Barber II

Motorsports Technology I (Course Number 20105-I; VA Assignment Number 8509)
1 Credit

Motorsports Technology I provides a foundation in the principles of race car fabrication and all facets of the racing industry. Technical aspects of the course include skill development in vehicle assembly using specialty tools and welding. Students explore the motorsports technology industry and identify careers in the field.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Motorsports Technology II (Course Number 20105-II; VA Assignment Number 8510)
2 Credits

Motorsports Technology II further develops students' skills in race car fabrication as they explore the motorsports technology industry. Students gain experience in chassis preparation, vehicle assembly, and engine assembly and disassembly. Additional focus areas include racing protocol and regulatory compliance in the motorsports field.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Motorsports Technology I

Welding I (Course Number – 13207-I; VA Assignment Code – 8672)
1 Credit

Welding is required by a wide variety of industries anywhere fusible materials and high heat are needed to manufacture, repair, or alter tools and products. Students in Welding I are taught to use manual welding, cutting, and electrical arc welding processes to fabricate and join metal parts according to diagrams, blueprints, and specifications. Students will also learn all safety-related practices and techniques, including earning the OSHA 10 card.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: None

Welding II (Course Number – 13207-II; VA Assignment Code – 8673)
2 Credits

This course teaches advanced welding students how to fine-tune their craft and to perform welds in various positions, using multiple welding processes. Welding is required by a wide variety of industries anywhere fusible materials and high heat are needed to manufacture, repair, or alter products. Professional welders are in high demand and can earn accordingly.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Welding I

Science

Earth Science I (Course Number – 03001;
VA Assignment Code – 4210)

1 Credit (Eligible for Verified Credit)

Earth Science is a laboratory-based course that provides students with an opportunity to explore the various physical phenomena that affect the earth. This course, which includes research design concepts, helps students become more aware of their surroundings through the study of astronomy, space science, meteorology, oceanography, physical geology, and environmental resources.

Graduation Requirements: This course may be used or counted toward the graduation requirement in science. Prerequisites: None

Earth Science I Honors (Course Number – H03001-I; VA Assignment Code – H4210)

1 Credit (Eligible for Verified Credit)

This honors Earth Science course is designed for students who display an advanced knowledge of science. Students will have the opportunity to explore Earth Science concepts through completing performance tasks, engaging in case studies, and conducting and reviewing authentic research. Earth Science is a laboratory-based course that provides students with an opportunity to explore the various physical phenomena that affect Earth. This course, which includes research design concepts, helps students become more aware of their surroundings through the study of astronomy, space science, meteorology, oceanography, physical geology, and environmental resources.

Graduation Requirements: This course may be counted toward the graduation requirement in science.

Prerequisites: None

Earth Science II - Astronomy (Course Number – 03004; VA Assignment Code – 4260)

1 Credit

Astronomy is a laboratory science course that explores the tools and techniques of the astronomer, the solar system, exploration of

space, universal laws, stellar evolution, and formation of galaxies and the origin of the universe.

Graduation Requirements: This course may be used or counted toward the graduation requirement in science or for elective course credit.

Prerequisites: Earth Science I

Biology I (Course Number – 03051; VA Assignment Code – 4310)

1 Credit (Eligible for Verified Credit)

Biology is a laboratory science course in which students engage in an in-depth study of the principles of biology. Students will investigate the understanding of living systems and the relationship between structure and function of organisms and systems, and the interdependence and interactions of biotic and abiotic components of the environment.

Graduation Requirements: This course may be counted toward the graduation requirement in science.

Prerequisites: None

Biology I Honors (Course Number – H03051; VA Assignment Code – H4310)

1 Credit (Eligible for Verified Credit)

This honors biology course is designed for students who display an advanced knowledge of science. Students will have the opportunity to explore biology concepts through completing performance tasks, engaging in case studies, and conducting and reviewing authentic research. The biology course is designed to provide students with a detailed understanding of living systems. Emphasis is placed on the skills necessary to examine alternative scientific explanations, actively conduct controlled experiments, analyze and communicate information, and gather and use information in scientific literature. The history of biological thought and the evidence that supports it are explored, providing the foundation for investigating biochemical life processes, cellular organization, mechanisms of inheritance, dynamic relationships among organisms, and the change in organisms through time. The importance of scientific research that

validates or challenges ideas is emphasized at this level. Students are required to complete daily homework assignments and are expected to be more independent and highly motivated.

Graduation Requirements: This course may be used to fulfill the science standard credit.

Prerequisites: None

AP Biology (Course Number – AP03056; VA Assignment Code – AP4370)

1 Credit

Course content corresponds to the syllabus of the College Board Advanced Placement program. Advanced Placement Biology is a second-year, laboratory-centered biology course designed to help students develop an understanding of how biological information is collected, how it is interpreted, and how hypotheses are formulated to make further predictions. Students focus on three broad content areas: the molecular and cellular, the organism, and the population. In this college-level course, the major emphasis is on laboratory observations and experimentation. Students enrolled are expected to take the AP Exam.

Graduation Requirements: This course may be used to fulfill the science standard credit.

Prerequisites: Biology I

Biology II - Anatomy/Physiology (Course Number – 03053; VA Assignment Code – 4330)

1 Credit

This laboratory course gives an explanation of the chemical and physical phenomena underlying the structure and function of systems of the human body. Identifies, explains functions of and describes chemical networking of the various body parts in relation to the total system. Students will investigate the intricate machinery that makes the body work, relating the functional anatomy and physical geography of organs and organ systems to the physiological functions which they perform. Students will also explore the delicate web of interaction among body systems, the importance of maintaining homeostatic balance within this

web, and the medical implications of disturbing this balance.

Graduation Requirements: This course may be used to fulfill the science standard credit.

Prerequisites: Biology I

Chemistry I (Course Number – 03101-I; VA Assignment Code – 4410)

1 Credit (Eligible for Verified Credit)

Chemistry is a laboratory science course in which students will study the following: topics such as atomic theory, compounds and bonding, chemical reactions, gases and solutions, moles and stoichiometry, as well as the appropriate safety precautions when working with chemicals and laboratory equipment.

Graduation Requirements: This course may be used to fulfill the science standard credit.

Prerequisites: Biology I and Algebra 1 or Geometry

Chemistry I Honors (Course Number – H03101; VA Assignment Code – H4410)

1 Credit (Eligible for Verified Credit)

This honors Chemistry course is designed for students who display an advanced knowledge of science. Students will have the opportunity to explore chemistry concepts through completing performance tasks, engaging in case studies, and conducting and reviewing authentic research. Chemistry is a laboratory science course in which students will study the following: atomic theory, compounds and bonding, chemical reactions, gasses and solutions, moles and stoichiometry, as well as the appropriate safety precautions when working with chemicals and laboratory equipment.

Graduation Requirements: This course may be used to fulfill the science standard credit.

Prerequisites: Biology I and Algebra 1 or Geometry

AP Chemistry (Course Number – AP03106; VA Assignment Code – AP4470)

1 Credit

Course content corresponds to the syllabus of the College Board Advanced Placement program. This course is designed to offer college-level general chemistry experiences

with emphasis on chemical calculations, the mathematical formulations of principles, and laboratory work. The AP Chemistry course is designed to be the equivalent of the general first year chemistry course. AP Chemistry students attain a depth of understanding of chemistry fundamentals and of laboratory experiences that goes beyond that covered in first year chemistry. All major topics of chemistry are covered. Students enrolled are expected to take the AP exam.

Graduation Requirements: This course may be used to fulfill the science standard credit.

Prerequisites: Chemistry I and Algebra II

Environmental Science (Course Number – 03003; VA Assignment Code – N/A)

1 Credit

This course serves as a foundation course for students enrolling in biology or earth science the following year. Major concepts studied include energy, earth's surface and interior, renewable and nonrenewable resources, pollution, and environmental issues of the world. Students will identify and analyze environmental problems, both natural and human-made; evaluate the relative risks associated with these problems; and examine alternative solutions for resolving or preventing them. It integrates the study of many components of our environment, including the human impact on our planet.

Graduation Requirements: This course may be used or counted toward the graduation requirement in science.

Prerequisites: None

AP Environmental Science (Course Number – AP03207; VA Assignment Code – AP4270)

1 Credit

Course content corresponds to the syllabus of the College Board Advanced Placement program. The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science. AP Environmental Science is designed to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world.

Environmental science is interdisciplinary and embraces a wide variety of topics from different areas of study including the earth systems and resources, the living world, population, land and water, energy resources and consumption, pollution, and global change. Students enrolled are expected to take the AP exam.

Graduation Requirements: This course may be used to fulfill the science standard credit.

Prerequisites: Biology I

Physics I (Course Number – 03151; VA Assignment Code – 4510)

1 Credit

This introductory laboratory course in the basic laws of the physical universe stresses both practical and theoretical applications of physics. This course offers a combination of theoretical and practical studies such as mechanics that analyze motions and forces; study of energy with applications to work and power; thermodynamics; properties of waves (light and sound); electricity and magnetism; and atomic physics leading to an understanding of the basic principles of physics.

Graduation Requirements: This course may be used or counted toward the graduation requirement in science or for elective course credit

Prerequisites: None

AP Physics I (Course Number – AP03165-I; VA Assignment Code – N/A)

1 Credit

In this college-level algebra-based physics course, students will study major topics in physics outlined by College Board AP Physics 1, including: motion, forces, simple harmonic motion, conservation of energy, conservation of momentum, rotational motion, electrostatics, circuits, electromagnetism, and waves. Students enrolled are expected to take the AP exam.

Graduation Requirements: This course may be used to fulfill the science standard credit.

Prerequisites: Biology I and Algebra II

World Languages

American Sign Language I (Course Number – 24852; VA Assignment Code – 5990)

1 Credit

Designed to introduce students to American Sign Language and Culture, American Sign Language I prepares students to communicate authentically by interpreting (reading/viewing), exchanging (signing and reading), and presenting (signing) information on a variety of topics. It introduces the relationship between the practices, perspectives, and cultures of deaf people and communities.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: None

American Sign Language II (Course Number – 24853; VA Assignment Code – 5995)

1 Credit

American Sign Language II builds upon skills developed in American Sign Language I, and prepares students to communicate authentically by interpreting (reading/viewing), exchanging (signing and reading), and presenting (signing) information on concrete topics. American Sign Language II continues to develop the relationship among the practices, perspectives, and cultures of deaf people and communities.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: American Sign Language I

American Sign Language III (Course Number – 24854; VA Assignment Code – 5997)

1 Credit

American Sign Language III further develops students' abilities to communicate authentically in American Sign Language by interpreting (reading/viewing), exchanging (signing and reading), and presenting (signing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. This course expands

students' knowledge of relationships among the practices, perspectives, and cultures of deaf people and communities.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: American Sign Language II

American Sign Language IV (Course Number – 24855; VA Assignment Code – 5998)

1 Credit

American Sign Language IV prepares students to communicate authentically with members of the deaf community in American Sign Language by interpreting (reading/viewing), exchanging (signing and reading), and presenting (signing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. American Sign Language IV deepens students' understanding of the relationships among the practices, perspectives, and cultures of deaf people and communities.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: American Sign Language III

French I (Course Number – 24102; VA Assignment Code – 5110)

1 Credit

French I introduces students to the French language and culture. French I prepares students to communicate authentically by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on a variety of topics. Students are introduced to the relationships between the products, practices, and perspectives of French-speaking cultures.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: None

French II (Course Number – 24103; VA Assignment Code – 5120)

1 Credit

French II builds upon skills developed in French I, preparing students to communicate authentically by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on everyday topics. Students continue to explore the relationships among the products, practices, and perspectives of French-speaking cultures. *Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.*

Prerequisites: French I

French III (Course Number – 24104; VA Assignment Code – 5130)

1 Credit

French III further develops students' abilities to communicate authentically in French by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. This course expands students' knowledge of the relationships among the products, practices, and perspectives of French-speaking countries and cultures.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: French II

French IV (Course Number – 24105; VA Assignment Code – 5140)

1 Credit

French IV prepares students to communicate authentically in French with Francophone persons by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. French IV deepens students' understanding of the relationships among the products, practices, and perspectives of French-speaking countries and cultures.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: French III

German I (Course Number – 24252; VA Assignment Code – 5210)

1 Credit

German I prepares students to communicate authentically in German by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on a variety of topics. Students are introduced to the relationships between the products, practices, and perspectives of German-speaking cultures.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: None

German II (Course Number – 24253; VA Assignment Code – 5220)

1 Credit

German II builds upon skills developed in German I, preparing students to communicate authentically by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. German II develops the relationships between the products, practices, and perspectives of German-speaking cultures.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: German I

German III (Course Number – 24254; VA Assignment Code – 5230)

1 Credit

German III prepares students to communicate authentically in German by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. This course expands students'

knowledge of relationships among the products, practices, and perspectives of German-speaking countries and cultures.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: German II or placement based on proficiency

German IV (Course Number – 24255; VA Assignment Code – 5240)

1 Credit

German IV prepares students to communicate authentically in German with Germanic people, by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. This course promotes students' understanding of the relationships between the products, practices, and perspectives of German-speaking countries and cultures.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: German III or placement based on proficiency

Japanese I (Course Number – 24452; VA Assignment Code – 5910)

1 Credit

Japanese I prepares students to communicate authentically in Japanese by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on a variety of topics. This course introduces the relationships between the products, practices, and perspectives of Japanese-speaking cultures.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: None

Japanese II (Course Number – 24453; VA Assignment Code – 5920)

1 Credit

Japanese II builds upon skills developed in Japanese I, by preparing students to communicate authentically through interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. Japanese II continues to introduce the relationships between the products, practices, and perspectives of Japanese-speaking cultures.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: Japanese I

Japanese III (Course Number – 24454; VA Assignment Code – 5930)

1 Credit

Japanese III prepares students to communicate authentically in Japanese by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. This course expands students' knowledge of relationships among the products, practices, and perspectives of Japanese-speaking countries and cultures.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: Japanese II

Japanese IV (Course Number – 24455; VA Assignment Code – 5940)

1 Credit

Japanese IV prepares students to communicate authentically in Japanese with native speakers by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. Japanese IV courses promote students' understanding of the relationships among the products, practices, and perspectives of Japanese-speaking countries and cultures.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: Japanese III

Latin I (Course Number – 24342; VA Assignment Code – 5310)

1 Credit

In Latin I, students begin to develop the ability to comprehend simple written Latin texts based on a variety of topics, with a focus on comprehension rather than interpersonal communication. To support the development of reading skills, students learn to use Latin orally, understand oral Latin, and write very simple phrases and sentences. Students also learn about the perspectives, practices, and products of the ancient Romans as reflected in aspects of the daily lives of Roman people. Students compare these cultural and historical elements to their own culture and recognize examples of the influence of Roman civilization in their own world. Through their understanding of the structures and vocabulary of Latin, students enhance their understanding of these same linguistic elements of English.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: None

Latin II (Course Number – 24343; VA Assignment Code – 5320)

1 Credit

In Latin II, students develop the ability to comprehend written Latin texts with more complex linguistic structures, with a focus on comprehension rather than interpersonal communication. Students understand adapted and authentic Latin texts from original sources. To support the development of reading skills, students continue to use and understand some oral Latin and write simple phrases and sentences. Students also learn about the perspectives, practices, and products of the ancient Romans. Students compare cultural and historical elements of ancient Rome and the United States by finding examples of the influences of Roman culture on the United States. They also

compare the effects of the geography of the ancient Roman world and that of the United States on aspects of culture, such as food, dwellings, clothing, and art.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: Latin I

Latin III (Course Number – 24344; VA Assignment Code – 5330)

1 Credit

In Latin III, students develop the ability to comprehend Latin texts with complex linguistic structures, with a focus on comprehension rather than interpersonal communication. Students expand their knowledge of archeological evidence, art, and literature as reflections of Roman perspectives and practices. They examine the Roman political system, the multicultural aspects of the Roman Empire, and the role of geography in military history and compare these to similar aspects of United States politics, culture, geography, and history.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: Latin II

Latin IV (Course Number – 24345; VA Assignment Code – 5340)

1 Credit

In Latin IV, students interpret and analyze authentic Latin in a variety of genres. The study of Latin emphasizes interpretation of texts because the focus is on comprehension rather than interpersonal communication. Students analyze the effects of stylistic features, such as figures of speech, word choice, and meter, in an author's work. They expand their knowledge of the perspectives and practices of Roman civilization by examining its philosophy, religion, mythology, and standards of personal conduct. Students also discuss the contributions of the Romans to modern law, government, art, and literature. The standards for level IV focus on the refinement of language skills.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: Latin III

Spanish for Fluent Speakers I (Course Number – 24057-I; VA Assignment Code – 5511)

1 Credit

This course focuses on the development of communicative competence in reading, writing, speaking and listening, as well as on understanding the practices and perspectives of Hispanic cultures. Students will develop an awareness and understanding of language variation, customs, geography, history, and current events. Students will gain confidence using Spanish to express their own thoughts on social and academic themes, interact with other speakers of the language, understand oral and written messages, make oral and written presentations, reflect on language variation, and critically view and evaluate media resources and websites. Students will be able to understand material presented on a variety of topics related to contemporary events and issues in Hispanic communities.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: Native or heritage Spanish-speaker

Spanish for Fluent Speakers II (Course Number – 24057-II; VA Assignment Code – 5521)

1 Credit

This course is designed for native and/or heritage learners of Spanish who bring strong proficiency and literacy skills in Spanish, as well as for those who have completed Spanish for Fluent Speakers I. This course focuses on the development of advanced communicative competence in reading, writing, speaking and listening, as well as on understanding Hispanic cultural practices and perspectives. Students will continue to develop awareness and understanding of language variation, customs, geography, history, and current events. Students will gain proficiency in using Spanish in increasingly

complex ways to express thoughts on social and academic themes, interact with other speakers of the language, understand oral and written messages, make oral and written presentations, reflect on language variation, and critically view and evaluate media resources and websites. Students will be able to understand material presented on a variety of topics related to contemporary events and issues in Hispanic communities.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: Spanish for Fluent Speakers I

Spanish I (Course Number – 24052; VA Assignment Code – 5510)

1 Credit

In Spanish I, students learn to communicate in real-life contexts about topics that are meaningful to them. Emphasis is placed on use of Spanish in the classroom as exclusively as possible and on use of authentic materials to learn about the language and culture and to develop students' communicative competence. Grammar is integrated into instruction according to the vocabulary and structures needed in the various situations in which students are required to communicate. Students develop a greater understanding of the structure of their own language and the unique aspects of their own culture.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: None

Spanish II (Course Number – 24053; VA Assignment Code – 5520)

1 Credit

In Spanish II, students continue to develop their communicative and cultural competence by interacting orally and in writing with other Spanish speakers, understanding oral and written messages in the language, and making oral and written presentations in the language. Learning continues to focus on communicating about daily activities. Students read material on familiar topics and write short, directed compositions. Emphasis continues to be placed on use of Spanish in

the classroom as well as on use of authentic materials to learn about Spanish language and cultures.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: Spanish I

Spanish III (Course Number – 24054; VA Assignment Code – 5530)

1 Credit

In Spanish III, students continue to develop their communicative and cultural competence by interacting orally and in writing with other Spanish speakers, understanding oral and written messages in the language, and making oral and written presentations in Spanish. Students communicate on a variety of topics at a level commensurate with their study, using more complex structures in the language and moving from concrete to more abstract concepts in a variety of time frames. Students are expected to comprehend the main ideas of authentic materials that they listen to and read, and to identify significant details when the topics are familiar. Students develop the ability to sustain a conversation in Spanish about topics that include historical and contemporary events and issues. Emphasis continues to be placed on use of Spanish in the classroom as exclusively as possible, as well as on use of authentic materials to learn about the Spanish language and culture(s).

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: Spanish II or placement based on proficiency

Spanish IV (Course Number – 24055; VA Assignment Code – 5540)

1 Credit

In Spanish IV, students continue to develop their communicative and cultural competence, understanding oral and written texts, and making oral and written presentations in Spanish. Students exchange and support opinions on a variety of topics related to historical and contemporary events and issues at a proficiency level

commensurate with their study. Students are expected to comprehend spoken and written Spanish texts from a variety of authentic sources as well as produce compositions containing well-developed ideas on various topics. Students use Spanish to access information in other subject areas and to compare and contrast cultural elements found in Spanish-speaking countries or regions with their own.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: Spanish III or placement based on proficiency

AP Spanish Language and Culture (Course Number – AP24064; VA Assignment Code – AP5570)

1 Credit

The AP Spanish Language and Culture Course is approximately equivalent to an upper-intermediate college or university course. This course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, honors communication strategies, and cultural awareness. This course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish, and also engages students in an exploration of culture in both contemporary and historical contexts, and develops students' awareness and appreciation of cultural products, practices, and perspectives.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: Spanish IV is recommended or strong intermediate level of proficiency

AP Spanish Literature and Culture (Course Number – AP24065; VA Assignment Code – N/A)

1 Credit

Designed by the College Board to parallel third-year college-level courses in Spanish language, AP Spanish Literature and Culture uses a thematic approach to introduce students to representative texts from Peninsular Spanish, Latin American, and U. S. Hispanic literature. Students develop proficiencies across the three modes of communication (interpretive, interpersonal, and presentational) in the range of Intermediate High to Advanced Mid of the (ACTFL) Proficiency Guidelines. Through careful examination of the required readings and other texts, students work to hone their critical reading and analytical writing skills. Literature is explored within the contexts of its time and place, and students gain insights on the many voices, historical periods, and cultures represented in the required readings and other texts. The course also includes a strong focus on cultural, artistic, and linguistic connections and comparisons, which is supported by the exploration of various media.

Graduation Requirements: This course is one that may be used to fulfill the world languages standard credit.

Prerequisites: AP Spanish Language

AVID Courses (Armstrong, John Marshall and Richmond School of the Arts Only)

The Advancement Via Individual Determination program (AVID) is an academic elective course for students that are identified as AVID participants. that prepares select secondary students for college readiness and success. Students receive instruction that utilizes a rigorous college-preparatory curriculum provided by AVID Center, tutor-facilitated study groups, motivational activities, and academic success skills. In AVID, students participate in activities that incorporate strategies focused on writing, inquiry, collaboration, organization, and reading (WICOR strategies) to support their academic growth. Additionally, students engage in activities centered around exploring college and career opportunities and their own agency.

AVID I - 9th Grade (Course Number – 22007-09; VA Assignment Code – N/A)

1 Credit

In the 9th grade AVID Elective course, students will develop and/or refine academic and personal goals and communication while adjusting to the high school setting. Students will increase their awareness of their personal contributions to their learning as well as their involvement in their school and community. There is an emphasis on analytical writing, focusing on personal goals and thesis writing. Students will work in collaborative settings, learning how to participate in collegial discussions and use sources to support their ideas and opinions. Students will prepare for and participate in college entrance and placement exams while refining study skills and test-taking, note-taking, and research techniques. They will take an active role in field trips and guest-speaker preparations and presentations. Their college research will include financial topics and building their knowledge of colleges and careers of interest.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Admission to the program by teacher/counselor recommendations, and/or interview

AVID II - 10th Grade (Course Number – 22007-10; VA Assignment Code – N/A)

1 Credit

During the 10th grade AVID Elective course, students will refine the AVID strategies to meet their independent needs and learning styles. Students will continue to refine and adjust their academic learning plans and goals, increasing awareness of their actions and behaviors. As students increase their rigorous course load and school/community involvement, they will refine their time-management and study skills accordingly. Students will expand their writing portfolio to include analyzing prompts, supporting arguments and claims, character analysis, and detailed reflections. Students will also analyze various documents in order to participate in collaborative discussions and develop leadership skills in those settings.

Students will expand their vocabulary use, continuing to prepare for college entrance exams. Text analysis will focus on specific strategies to understand complex texts.

Lastly, students will narrow down their colleges and careers of interest based on their personal interests and goals.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Successful completion of AVID 9th grade, or admission to the program by teacher/counselor recommendations, application, and/or interview

AVID III - 11th Grade (Course Number – 22007-11; VA Assignment Code – N/A)

1 Credit

The 11th-grade AVID Elective course is the first part of a junior/senior seminar course that focuses on writing and critical thinking expected of first- and second-year college students. In addition to the academic focus of the AVID seminar, there are college-bound activities, methodologies, and tasks that should be undertaken during the junior year to support students when they apply to four-year universities and confirm their postsecondary plans.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Successful completion of AVID 10th grade, or admission to the program by teacher/counselor recommendations, application, and/or interview

AVID IV - 12th Grade (Course Number – 22007-12; VA Assignment Code – N/A)

1 Credit

The 12th-grade AVID Elective course is the second part of a junior/senior seminar course that focuses on the writing and critical thinking expected of first- and second-year college students. Students will complete a final research essay project with research skills gained in their junior year in AVID. In addition to the academic focus of the AVID senior seminar, there are college-bound activities, methodologies, and tasks that should be achieved during the senior year that support students as they apply to four-year universities and confirm their postsecondary plans. All AVID seniors are required to develop and present a portfolio representing their years of work in the AVID program, as well as complete the requirements for the seminar course.

Graduation Requirements: This is an elective course and does not fulfill the requirements of a standard credit course.

Prerequisites: Successful completion of AVID 11th grade, or admission to the program by teacher/counselor recommendations, application, and/or interview

Core Content Suggested Course Sequences

Recommended Course Selections by Grade Level

Grade	English	Mathematics	History & Social Sciences	Science
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9 th Grade	English Grade 9	Algebra I Geometry	World History & Geography 1500 World Geography	Biology I Environmental Science
	English Grade 9 Honors	Algebra I Honors Geometry Honors Algebra II Honors	World History & Geography to 1500 Honors AP Human Geography	Biology I Honors
10 th Grade	English Grade 10	Geometry Algebra II	World History 1500 to the Present World Geography	Environmental Science Biology I Biology II: A&P Chemistry I
	English Grade 10 Honors	Geometry Honors Algebra II Honors Mathematical Analysis/Pre-Calculus Honors Probability & Statistics	World History & Geography 1500 to Present Honors AP European History AP Modern World History	Chemistry I Honors Biology I Honors AP Environmental Science
11 th Grade	English Grade 11	Algebra, Functions & Data Analysis Algebra II Probability & Statistics Mathematics Analysis/Pre-Calculus	United States & Virginia History	Earth Science Earth Science II: Astronomy Biology II: Anatomy/Physiology Chemistry I Physics I
	AP Language & Composition	Mathematical Analysis/Pre-Calculus Honors Probability & Statistics AP Statistics AP Computer Science A	AP United States History	AP Environmental Science AP Biology AP Physics AP Chemistry

12 th Grade	English Grade 12	Probability & Statistics Mathematical Analysis/Pre-Calculus	United States and Virginia Government	Biology II: Anatomy/Physiology Earth Science II: Astronomy Chemistry I Physics I
	AP Literature & Composition	Mathematical Analysis/Pre-Calculus Honors AP Calculus AB/BC AP Statistics AP Computer Science A	AP Government	AP Physics AP Chemistry AP Biology AP Environmental Science

English Learners Suggested Course Sequence

The four pathways below outline suggested course sequences for Multilingual learners based on EL designations, WIDA proficiency levels, and grade levels. The following pathways include:

- Newcomer Profile
- Multilingual Learner Profile (WIDA Level 1-2.9)
- Multilingual Learner Profile (WIDA Level 3-4.3)
- Long-term EL Profile

YEAR 1 (Freshman) Newcomer Profile - WIDA Level 1-1.9		
Content Area	Courses *Newcomer courses are EL-only and taught by dually endorsed teachers whenever possible	Potential Credit Hours
English	<ul style="list-style-type: none"> • ESL I <i>World Language Credit</i> and • English 9 (EL-only) <i>English Credit</i> 	2
Math	<ul style="list-style-type: none"> • Algebra 1 <i>Math Credit</i> or • Intensified Algebra (EL only) <i>Math Credit in 2nd semester</i> 	1 or 2
History	<ul style="list-style-type: none"> • VA/US Government (EL only) <i>History Credit</i> 	1
Science	<ul style="list-style-type: none"> • Environmental Science (EL only) <i>Science credit</i> 	1
Health & PE	<ul style="list-style-type: none"> • Health & PE 9 <i>Health & PE Credit</i> 	1

Elective	<ul style="list-style-type: none"> Recommendation for SLIFE: Developmental Reading for ELs <u>and</u> Spanish for Fluent Speakers 1 or Any general education elective that meets the requirements toward graduation (for non-Spanish speakers and/or non-SLIFE) 	1
Potential Credits Towards Graduation: 8		8
YEAR 2 (Sophomore) Newcomer Profile		
Content Area	Courses *LIEP teachers scheduled as co-teachers in content areas	Potential Credit Hours
English	<ul style="list-style-type: none"> ESL II <i>World Language Credit</i> <u>and</u> English 10 (EL only or co-taught) <i>English Credit</i> 	2
Math	<ul style="list-style-type: none"> AFDA (co-taught) <i>Math Credit</i> or Algebra II or Geometry (co-taught) <i>Math Credit</i> 	1 or 2
History	<ul style="list-style-type: none"> World History 1 (co-taught) <i>History Credit</i> 	1
Science	<ul style="list-style-type: none"> Earth Science (co-taught) <i>Science Credit</i> 	1
Health & PE	<ul style="list-style-type: none"> Health and PE 10 <i>Health & PE Credit</i> 	1
Elective	<ul style="list-style-type: none"> Recommended Scheduling: Spanish for Fluent Speakers 2 or Any general education elective that meets the requirements toward graduation 	1
Potential Credits Towards Graduation: 8		8
YEAR 3 (Junior) Newcomer Profile		
Content Area	Courses *LIEP teachers scheduled as co-teachers in content areas	Potential Credit Hours
English	<ul style="list-style-type: none"> ESL III <i>World Language Credit</i> <u>and</u> English 11 (co-taught) <i>English Credit</i> 	2
Math	<ul style="list-style-type: none"> Geometry(co-taught) <i>Math Credit</i> Algebra II(co-taught) <i>Math Credit</i> or Any higher level math course <i>Math Credit</i> 	1
History	<ul style="list-style-type: none"> VA US History(co-taught) <i>History Credit</i> 	1

	<ul style="list-style-type: none"> • World History 2(co-taught) <i>History Credit</i> 	
Science	<ul style="list-style-type: none"> • Biology (co-taught) <i>Science Credit</i> 	1
Econ/Pers Fin.	<ul style="list-style-type: none"> • Economics and Personal Finance <i>CTE Credit</i> 	1
Elective	<ul style="list-style-type: none"> • Recommended scheduling: AP Spanish Language • Any general education elective that meets the requirements toward graduation 	2
Potential Credits Towards Graduation: 8		8
YEAR 4 (Senior) Newcomer Profile		
Content Area	Courses *LIEP teachers scheduled as co-teachers in content areas	Potential Credit Hours
English	<ul style="list-style-type: none"> • ESL IV <i>World Language Credit</i> • English 12 (co-taught) <i>English Credit</i> 	2
Math	<ul style="list-style-type: none"> • AP Computer Science <i>Math Credit</i> • Geometry (co-taught) <i>Math Credit</i> • Algebra II (co-taught) <i>Math Credit</i> • Any higher level math course <i>Math Credit</i> 	1 or 2
History	<ul style="list-style-type: none"> • VA US History(co-taught) <i>History Credit</i> • World History 2 (co-taught)<i>History Credit</i> • Any higher level History course <i>History Credit</i> 	1
Science	<ul style="list-style-type: none"> • Biology II (co-taught) <i>Science Credit</i> • Chemistry (co-taught) <i>Science Credit</i> 	1
Electives	<ul style="list-style-type: none"> • Recommended scheduling: AP Spanish Literature • Any general education elective that meets the requirements toward graduation 	2
Potential Credits Towards Graduation: 8		8
Total Potential Credits Toward Graduation: 32		

YEAR 1 (Freshman)

Profile: WIDA Level 1-2.9		
Content Area	Courses *LIEP teachers scheduled as co-teachers in content areas	Potential Credit Hours
English	<ul style="list-style-type: none"> ESL I <i>World Language Credit</i> English 9 (co-taught) <i>English Credit</i> 	2
Math	<ul style="list-style-type: none"> Algebra I or AFDA (co-taught) <i>Math Credit</i> or Geometry (co-taught) <i>Math Credit</i> 	2
History	<ul style="list-style-type: none"> World History 1 (co-taught) <i>History Credit</i> 	1
Science	<ul style="list-style-type: none"> <i>Environmental Science (co-taught) Science Credit</i> 	1
Health & PE	<ul style="list-style-type: none"> Health & PE 9 <i>Health & PE Credit</i> 	1
Elective	<ul style="list-style-type: none"> Any general education elective that meets the requirements toward graduation 	1
Potential Credits Towards Graduation: 8		8
YEAR 2 (Sophomore) Profile: WIDA Level 1-2.9		
Content Area	Courses	Potential Credit Hours
English	<ul style="list-style-type: none"> ESL II <i>World Language Credit</i> English 10 (co-taught) <i>English Credit</i> 	2
Math	<ul style="list-style-type: none"> AFDA or Algebra II (co-taught) <i>Math Credit</i> or Geometry (co-taught) <i>Math Credit</i> 	1
History	<ul style="list-style-type: none"> World History 2 (co-taught) <i>History Credit</i> 	1
Science	<ul style="list-style-type: none"> Biology (co-taught) <i>Science Credit</i> or <i>Earth Science (co-taught) Science Credit or</i> <i>Biology 2 (co-taught) Science Credit</i> 	1
Health & PE	<ul style="list-style-type: none"> Health and PE 10 <i>Health & PE Credit</i> 	1
Elective	<ul style="list-style-type: none"> Any general education elective that meets the requirements toward graduation 	2
Potential Credits Towards Graduation: 8		8

YEAR 3 (Junior) Profile: WIDA Level 1-2.9		
Content Area	Courses	Potential Credit Hours
English	<ul style="list-style-type: none"> ESL III <i>World Language Credit</i> English 11 (co-taught) <i>English Credit</i> 	2
Math	<ul style="list-style-type: none"> Algebra II (co-taught) or Geometry (co-taught) <i>Math Credit</i> or Any higher level math course <i>Math Credit</i> 	1
History	<ul style="list-style-type: none"> VA/US History (co-taught) <i>History Credit</i> 	1
Science	<ul style="list-style-type: none"> Chemistry (co-taught) <i>Science Credit</i> or Any higher level science course <i>Science Credit</i> 	1
Econ/Pers Fin.	<ul style="list-style-type: none"> Economics and Personal Finance <i>CTE Credit</i> 	1
Elective	<ul style="list-style-type: none"> Any general education elective that meets the requirements toward graduation 	2
Potential Credits Towards Graduation: 8		8
YEAR 4 (Senior) Profile: WIDA Level 1-2.9		
Content Area	Courses	Potential Credit Hours
English	<ul style="list-style-type: none"> ESL IV English 12 (co-taught) <i>English Credit</i> 	1
Math	<ul style="list-style-type: none"> AP Computer Science A or Any higher level math class <i>Math Credit</i> 	1
History	<ul style="list-style-type: none"> Government (co-taught) <i>History Credit</i> 	1
Science	<i>Science Credit</i> <ul style="list-style-type: none"> AP Environmental Science <i>Science Credit</i> or Any higher level Science Courses <i>Science Credit</i> 	1
Electives	<ul style="list-style-type: none"> Any general education elective that meets the requirements toward graduation 	4
Potential Credits Towards Graduation: 8		8

Total Potential Credits Toward Graduation: 32

YEAR 1 (Freshman) Profile: WIDA Level 3.0-4.3		
Content Area	Courses *LIEP teachers scheduled as co-teachers in content areas	Potential Credit Hours
English	<ul style="list-style-type: none"> ESL I <i>World Language Credit</i> English 9 <i>English Credit</i> 	2
Math	<ul style="list-style-type: none"> Algebra I or AFDA <i>Math Credit</i> or Geometry <i>Math Credit</i> 	1
History	<ul style="list-style-type: none"> World History 1 <i>History Credit</i> 	1
Science	<ul style="list-style-type: none"> Environmental Science <i>Science Credit</i> 	1
Health & PE	<ul style="list-style-type: none"> Health & PE 9- <i>Health & PE Credit</i> 	1
Elective	<ul style="list-style-type: none"> Any general education elective that meets the requirements toward graduation 	1 or 2
Potential Credits Towards Graduation: 8		8
YEAR 2 (Sophomore) Profile: WIDA Level 3.0-4.3		
Content Area	Courses *LIEP teachers scheduled as co-teachers in content areas	Potential Credit Hours
English	<ul style="list-style-type: none"> ESL II <i>World Language Credit</i> English 10 <i>English Credit</i> 	2
Math	<ul style="list-style-type: none"> AFDA or Algebra II <i>Math Credit</i> or Geometry <i>Math Credit</i> 	1
History	<ul style="list-style-type: none"> World History 2 <i>History Credit</i> 	1
Science	<ul style="list-style-type: none"> Biology <i>Science Credit</i> or Biology II <i>Science Credit</i> or <i>Earth Science Science Credit</i> 	1

Health & PE	<ul style="list-style-type: none"> Health & PE 10 <i>Health & PE Credit</i> 	1
Elective	<ul style="list-style-type: none"> Any general education elective that meets the requirements toward graduation 	2
Potential Credits Towards Graduation: 8		8
YEAR 3 (Junior) Profile: WIDA Level 3.0-4.3		
Content Area	Courses *LIEP teachers scheduled as co-teachers in content areas	Potential Credit Hours
English	<ul style="list-style-type: none"> ESL III <i>World Language Credit</i> English 11 <i>English Credit</i> 	1 or 2
Math	<ul style="list-style-type: none"> Algebra II or Geometry <i>Math Credit</i> or Any higher level math course <i>Math Credit</i> 	1
History	<ul style="list-style-type: none"> VA/US History <i>History Credit</i> 	1
Science	<ul style="list-style-type: none"> Chemistry <i>Science Credit</i> or Any higher level science course <i>Science Credit</i> 	1
Econ/Pers Fin.	<ul style="list-style-type: none"> Economics and Personal Finance <i>CTE Credit</i> 	1
Elective	<ul style="list-style-type: none"> Any general education elective that meets the requirements toward graduation 	2 or 3
Potential Credits Towards Graduation: 8		8
YEAR 4 (Senior) Profile: WIDA Level 3.0-4.3		
Content Area	Courses *LIEP teachers scheduled as co-teachers in content areas	Potential Credit Hours
English	<ul style="list-style-type: none"> ESL IV <i>World Language Credit</i> English 12 <i>English Credit</i> 	2
Math	<ul style="list-style-type: none"> AP Computer Science A or Any higher level math class <i>Math Credit</i> 	1
History	<ul style="list-style-type: none"> Government <i>History Credit</i> 	1

Science	<ul style="list-style-type: none"> AP Environmental Science <i>Science Credit</i> or Any higher level Science Courses <i>Science Credit</i> 	1
Electives	<ul style="list-style-type: none"> Any general education elective that meets the requirements toward graduation 	3
Potential Credits Towards Graduation: 8		8
Total Potential Credits Toward Graduation: 32		

YEAR 1 (Freshman)		
Profile: Long-term English Learner (5 or more years with EL designation)		
Content Area	Courses *LIEP teachers scheduled as co-teachers in content areas	Potential Credit Hours
English	<ul style="list-style-type: none"> English 9 (co-taught) <i>English Credit</i> 	1
Math	<ul style="list-style-type: none"> Algebra 1 (co-taught) <i>Math Credit</i> or Geometry (co-taught) <i>Math Credit</i> 	1
History	<ul style="list-style-type: none"> World History 1 (co-taught) <i>History Credit</i> 	1
Science	<ul style="list-style-type: none"> Environmental Science (co-taught) <i>Science Credit</i> 	1
Health & PE	<ul style="list-style-type: none"> Health & PE 9 <i>Health & PE Credit</i> 	1
Elective	<ul style="list-style-type: none"> Strategic Reading (Reading Intervention) <i>Elective Credit</i> Any general education elective that meets the requirements toward graduation 	3
Potential Credits Towards Graduation: 8		8
YEAR 2 (Sophomore)		
Profile: Long-term English Learner (5 or more years with EL designation)		
Content Area	Courses *LIEP teachers scheduled as co-teachers in content areas	Potential Credit Hours
English	<ul style="list-style-type: none"> English 10 (co-taught) <i>English Credit</i> 	1
Math	<ul style="list-style-type: none"> AFDA or Geometry (co-taught) <i>Math Credit</i> 	1
History	<ul style="list-style-type: none"> World History 2 (co-taught) <i>History Credit</i> 	1

Science	<ul style="list-style-type: none"> • Biology (co-taught) <i>Science Credit</i> or • <i>Earth Science (co-taught) Science Credit</i> • <i>Biology 2 (co-taught) Science Credit</i> 	1
Health & PE	<ul style="list-style-type: none"> • Health and PE 10 <i>Health & PE Credit</i> 	1
Elective	<ul style="list-style-type: none"> • Foundations of Literacy I (Reading Intervention) <i>Elective Credit</i> • Any general education elective that meets the requirements toward graduation 	3
Potential Credits Towards Graduation: 8		8
YEAR 3 (Junior) Profile: Long-term English Learner (5 or more years with EL designation)		
Content Area	Courses *LIEP teachers scheduled as co-teachers in content areas	Potential Credit Hours
English	<ul style="list-style-type: none"> • English 11 (co-taught) <i>English Credit</i> 	1
Math	<ul style="list-style-type: none"> • Algebra 2 (co-taught) <i>Math Credit</i> 	1
History	<ul style="list-style-type: none"> • VA US History (co-taught) <i>History Credit</i> 	1
Science	<ul style="list-style-type: none"> • Chemistry (co-taught) <i>Science Credit</i> or • <i>Earth Science (co-taught) Science Credit</i> • <i>Biology 2 (co-taught) Science Credit</i> 	1
Econ/Pers Fin.	<ul style="list-style-type: none"> • Economics and Personal Finance <i>CTE Credit</i> 	1
Elective	<ul style="list-style-type: none"> • Foundations of Literacy II (Reading Intervention) <i>Elective Credit</i> • Any general education elective that meets the requirements toward graduation 	3
Potential Credits Towards Graduation: 8		8
YEAR 4 (Senior) Profile: Long-term English Learner (5 or more years with EL designation)		
Content Area	Courses *LIEP teachers scheduled as co-teachers in content areas	Potential Credit Hours

English	<ul style="list-style-type: none"> English 12 (co-taught) <i>English Credit</i> 	1
Math	<ul style="list-style-type: none"> AP Computer Science A or other Math course above level of Alg 2 <i>Math Credit</i> 	1
History	<ul style="list-style-type: none"> Government (co-taught) <i>History Credit</i> 	1
Science	<i>Science Credit</i> <ul style="list-style-type: none"> AP Environmental Science Science Credit or Any higher level Science course 	1
Electives	<ul style="list-style-type: none"> Foundations of Literacy III (Reading Intervention) <i>Elective Credit</i> Any general education elective that meets the requirements toward graduation 	4
Potential Credits Towards Graduation: 8		8
Total Potential Credits Toward Graduation: 32		

Career and Technical Education Completer Sequence

A Career and Technical Education (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. A student who takes two 36-week CTE courses in the same career cluster/pathway is a completer and has completed an approved sequence of courses outlined by the Virginia Department of Education. In the CTE Completer Sequence list on the following pages, a bolded & underlined course, when taken with any one course listed below it, will satisfy the sequential requirements to be a completer. Some courses are required to be taken in sequential order (e.g., Welding I must be taken before Welding II). NOTE: Students may take additional CTE courses that will enhance their career pathway goals.

*Preferred Completer Course

TECHNOLOGY EDUCATION

Aerospace Technology I
Aerospace Technology II
Technology Foundations

Civil Engineering and
Architecture PLTW
Introduction to Engineering
(PLTW)

Energy and Power
Renewable Energy

Engineering Explorations I
(RTC Only)

Technology Foundations
Technical Drawing and
Design
Engineering Analysis and
Applications II
Engineering Concepts and
Processes III
Engineering Practicum IV

Engineering Practicum IV
(RTC ONLY)
Principles of Engineering
(PLTW RTC ONLY)

Introduction to Engineering
Design (PLTW) (RTC Only)
Principles of Engineering
(PLTW)

Civil Engineering and
Architecture (PLTW)
Engineering Design and
Development (PLTW)

Principles of Engineering
Engineering Practicum IV
Introduction to Engineering
Design (PLTW)

Renewable Energy
Energy and Power

Software Engineering
Essentials (PLTW) (RTC
Only)
Software Engineering
(PLTW)

Software Engineering
(PLTW)

Software Engineering
Essentials (PLTW)

Technical Drawing and
Design

Engineering Explorations I
(RTC Only)

Introduction to Engineering
Design (PLTW) (RTC Only)
Technology Foundations
Technology of Robotic
Design

Technology Foundations

Technology Transfer
Technical Drawing and
Design
Aerospace Technology I
Engineering Exploration I
(RTC)

Technology Transfer

Technology Foundations

Technology of Robotic
Design

Technical Drawing and
Design
Technology Foundations

Unmanned Aircraft Systems

Aviation Maintenance
Technology I

TRADE AND INDUSTRY
(RTC ONLY)

Auto Body Technology I
Auto Body Technology II

Auto Body Technology II

Auto Body Technology I

Automotive Technology I

Automotive Technology II

Automotive Technology II

Automotive Technology I

Aviation Maintenance
Technology I

Aviation Maintenance
Technology II

Aviation Maintenance
Technology II

Aviation Maintenance
Technology I

Master Barbering I

Master Barbering II
Master Barbering III

Master Barbering II

Master Barbering I
Master Barbering III

Master Barbering III

Master Barbering I
Master Barbering II

Carpentry I

Carpentry II

Carpentry II

Carpentry I

Cosmetology I

Cosmetology II
Cosmetology III

Cosmetology II

Cosmetology I
Cosmetology III

Cosmetology III

Cosmetology I
Cosmetology II

Criminal Justice I

Emergency Medical
Telecommunications
Criminal Justice II

Criminal Justice II

Criminal Justice I
Emergency Medical
Telecommunications

Electricity I

Electricity II

Electricity II

Electricity I

Graphic Imaging
Technology I

Graphic Imaging
Technology II

Graphic Imaging
Technology II

Graphic Imaging
Technology I

Motorsports Technology I

Motorsports Technology II

Motorsports Technology II

Motorsports Technology I

Welding I

Welding II

Welding II

Welding I

MARKETING

Strategic Marketing

Digital & Social Media
Marketing
Entrepreneurship
Fashion Marketing
Lodging Management
Marketing
Marketing Management
Opportunities in Global
Trade
Principles of Business and
Marketing
Sports and Entertainment
Management
Sports and Entertainment
Marketing

Digital and Social Media
Marketing

Entrepreneurship
Entrepreneurship,
Advanced
Fashion Marketing

Fashion Marketing,
Advanced
Introduction to Fashion
Careers
Lodging Management
Marketing
Marketing Management
Opportunities in Global
Trade
Opportunities in Global
Trade, Advanced
Principles of Business and
Marketing
Real Estate
Sports and Entertainment
Management
Sports and Entertainment
Marketing
Strategic Marketing

Fashion Marketing

*Fashion Marketing,
Advanced
Digital & Social Media
Marketing
Entrepreneurship
Entrepreneurship,
Advanced
Introduction to Fashion
Careers
Marketing
Marketing Management
Opportunities in Global
Trade
Opportunities in Global
Trade, Advanced
Principles of Business and
Marketing
Strategic Marketing

Lodging Management

Digital and Social Media
Marketing
Entrepreneurship
Entrepreneurship,
Advanced Marketing
Marketing Management
Opportunities in Global
Trade Opportunities in
Global Trade, Advanced

Principles of Business and
Marketing
Strategic Marketing

Marketing

Digital & Social Media
Marketing
Entrepreneurship
Entrepreneurship,
Advanced
Fashion Marketing
Lodging Management
Marketing Management
Opportunities in Global
Trade
Principles of Business and
Marketing
Real Estate
Sports and Entertainment
Marketing
Strategic Marketing

Marketing Management

Digital & Social Media
Marketing
Entrepreneurship
Entrepreneurship,
Advanced
Fashion Marketing
Fashion Marketing,
Advanced
Introduction to Fashion
Careers
Lodging Management
Marketing
Opportunities in Global
Trade
Opportunities in Global
Trade, Advanced
Principles of Business and
Marketing
Sports and Entertainment
Management
Sports and Entertainment
Strategic Marketing

Opportunities in Global Trade

*Opportunities in Global
Trade, Advanced

Digital & Social Media
Marketing
Entrepreneurship
Fashion Marketing
Advanced Fashion
Marketing
Introduction to Fashion
Careers
Lodging Management
Marketing
Marketing Management
Principles of Business and
Marketing
Sports and Entertainment
Marketing
Sports and Entertainment
Management
Strategic Marketing

Advanced Opportunities in Global Trade, Advanced (Prerequisite of Opportunities in Global Trade)

Opportunities in Global
Trade

Real Estate

Digital & Social Media
Marketing
Entrepreneurship
Marketing
Principles of Business and
Marketing

Sports and Entertainment Management

*Sports and Entertainment
Marketing
Digital & Social Media
Marketing
Entrepreneurship
Entrepreneurship,
Advanced
Marketing
Marketing Exploration
Marketing Management
Opportunities in Global
Trade
Opportunities in Global
Trade, Advanced

Principles of Business and
Marketing
Strategic Marketing

Sports and Entertainment Marketing

*Sports and Entertainment
Management
Digital & Social Media
Marketing
Entrepreneurship
Entrepreneurship,
Advanced
Marketing
Marketing Exploration
Marketing Management
Opportunities in Global
Trade
Opportunities in Global
Trade, Advanced
Principles of Business and
Marketing
Strategic Marketing

BUSINESS & INFORMATION TECHNOLOGY

Accounting

*Advanced Accounting
Business Law
Computer Information
Systems
Computer Information
Systems, Advanced
Design, Multimedia & Web
Technologies
Design, Multimedia & Web
Technologies, Advanced
Entrepreneurship
Entrepreneurship,
Advanced
Digital Applications
Legal Administration
Medical Administration
Office Administration
Principles of Business and
Marketing

Advanced Accounting

Prerequisite of Accounting
Business Law

Computer Information
Systems
Computer Information
Systems, Advanced
Design, Multimedia & Web
Technologies
Design, Multimedia & Web
Technologies, Advanced
Digital Applications
Entrepreneurship
Entrepreneurship,
Advanced
Legal Administration
Medical Administration
Office Administration
Principles of Business and
Marketing

Business Law

Accounting
Accounting, Advanced
Computer Information
Systems
Computer Information
Systems, Advanced
Design, Multimedia & Web
Technologies
Design, Multimedia & Web
Technologies, Advanced
Digital Applications
Legal Administration
Medical Administration
Office Administration
Principles of Business and
Marketing

Computer Information Systems

* Adv. Computer
Information System
Accounting
Accounting, Advanced
Business Law
Design, Multimedia & Web
Technologies
Design, Multimedia & Web
Technologies, Advanced
Digital Applications
Entrepreneurship
Entrepreneurship,
Advanced

Information Technology
Fundamentals
Legal Administration
Medical Administration
Office Administration
Principles of Business &
Marketing
Programming
Programming, Advanced

Adv. Computer Information Systems

Accounting
Accounting, Advanced
Business Law
Computer Information
Systems
Design, Multimedia, and
Web Technologies
Design, Multimedia, and
Web Technologies,
Advanced
Digital Applications
Entrepreneurship
Entrepreneurship,
Advanced
Information Technology
Fundamentals
Legal Administration
Medical Administration
Office Administration
Principles of Business and
Marketing
Programming
Programming, Advanced

Cybersecurity Fundamentals

Cybersecurity Systems
Technology (RTC Only)
Cybersecurity Systems
Technology, Adv (RTC Only)

Cybersecurity Systems Technology (RTC Only)

Cybersecurity
Fundamentals
Cybersecurity Systems
Technology, Adv (RTC Only)

Cybersecurity Systems
Technology, Adv (RTC
Only)

Cybersecurity
Fundamentals
Cybersecurity Systems
Technology (RTC Only)

Design, Multimedia & Web
Technologies

* Adv. Design, Multimedia,
& Web Tech.
Accounting
Accounting, Advanced
Business Law
Computer Information
Systems
Computer Information
Systems, Advanced
Design, Multimedia & Web
Technologies
Design, Multimedia & Web
Technologies, Advanced
Digital Applications
Information Technology
Fundamentals
Legal Administration
Medical Administration
Office Administration
Principles of Business &
Marketing
Programming
Programming, Advanced

Adv. Design, Multimedia, &
Web Technologies

*Design, Multimedia & Web
Technologies
Accounting
Accounting, Advanced
Business Law
Computer Information
Systems
Computer Information
Systems,
Advanced Digital
Applications
Information Technology
Fundamentals
Legal Administration
Medical Administration

Office Administration
Principles of Business &
Marketing
Programming
Programming, Advanced

Information Technology
Fundamentals

Computer Information
Systems
Cybersecurity
Fundamentals
Design, Multimedia & Web
Technologies
Digital Applications
Legal Administration
Medical Administration
Office Administration
Programming

Digital Applications

Accounting
Accounting, Advanced
Business Law
Computer Information
Systems
Computer Information
Systems, Advanced
Design, Multimedia & Web
Technologies
Design, Multimedia & Web
Technologies, Advanced
Information Technology
Fundamentals
Legal Administration
Medical Administration
Office Administration
Principles of Business &
Marketing
Programming
Programming, Advanced

Legal Administration

Accounting
Accounting, Advanced
Business Law
Computer Applications
Computer Information
Systems, Advanced
Design, Multimedia & Web
Technologies

Design, Multimedia & Web
Technologies, Advanced
Digital Applications
Information Technology
Fundamentals
Office Administration
Principles of Business and
Marketing

Medical Administration

Accounting
Accounting, Advanced
Business Law
Computer Information
Systems
Computer Information
Systems, Advanced
Design, Multimedia & Web
Technologies
Design, Multimedia & Web
Technologies, Advanced
Digital Applications
Information Technology
Fundamentals

Introduction to Health and
Medical Sciences
Medical Terminology
Office Administration
Principles of Business and
Marketing

Principles of Business &
Marketing

Accounting
Accounting, Advanced
Business Law
Computer Information
Systems
Computer Information
Systems, Advanced
Design, Multimedia & Web
Technologies
Design, Multimedia & Web
Technologies, Advanced
Digital Applications
Digital and Social Media
Marketing
Entrepreneurship
Entrepreneurship,
Advanced

Fashion Marketing
 Fashion Marketing,
 Advanced
 Lodging Management
 Introduction to Fashion
 Careers
 Legal Administration
 Marketing
 Marketing Management
 Medical Administration
 Office Administration
 Opportunities in Global
 Trade
 Opportunities in Global
 Trade, Advanced
 Real Estate
 Sports and Entertainment
 Management
 Sports and Entertainment
 Marketing
 Strategic Marketing

Office Administration

Accounting
 Accounting, Advanced
 Business Law
 Computer Information
 Systems Computer
 Information Systems,
 Advanced
 Design, Multimedia & Web
 Technologies
 Design, Multimedia & Web
 Technologies, Advanced
 Digital Applications
 Legal Administration
 Information Technology
 Fundamentals
 Medical Administration
 Principles of Business and
 Programming
 Programming, Advanced

Programming

*Programming, Advanced
 Computer Information
 Systems
 Computer Information
 Systems, Advanced
 Design, Multimedia & Web
 Technologies

Design, Multimedia & Web
 Technologies, Advanced
 Digital Applications
 Information Technology
 Fundamentals
 Office Administration

Advanced Programming

*Programming
 Computer Information
 Systems
 Computer Information
 Systems, Advanced
 Design, Multimedia & Web
 Technologies
 Design, Multimedia & Web
 Technologies, Advanced
 Digital Applications
 Information Technology
 Fundamentals
 Office Administration

ARMY JROTC

Army JROTC I
 *Army JROTC II

Army JROTC II
 Army JROTC III
 Army JROTC I

Army JROTC III
 Army JROTC IV
 Army JROTC II

Army JROTC IV
 Army JROTC III

FAMILY & CONSUMER SCIENCES

Baking and Pastry
 Specialization (RTC Only)
 Culinary Arts I
 Culinary Arts II

Culinary Arts I RTC ONLY
 Culinary Arts II

Culinary Arts II RTC ONLY
 Baking and Pastry
 Specialization

Child Development & Parenting

Nutrition and Wellness
 Introduction to Culinary
 Arts
 Independent Living
 Early Childhood, Education
 & Services I
 Virginia Teachers for
 Tomorrow I

Early Childhood, Education & Services I

*Early Childhood,
 Education & Services II
 Child Development &
 Parenting
 Independent Living
 Nutrition and Wellness
 Virginia Teachers for
 Tomorrow

Early Childhood, Education & Services II

Child Development &
 Parenting
 Nutrition and Wellness
 Virginia Teachers for
 Tomorrow

Fashion Careers I

Introduction to Fashion
 Careers
 Independent Living

Hospitality, Tourism, and Recreation I

*Hospitality, Tourism, and
 Recreation II
 Independent Living
 Nutrition and Wellness

Hospitality, Tourism, and Recreation II

Hospitality, Tourism, and
 Recreation I
 Independent Living
 Nutrition and Wellness

Independent Living

Child Development & Parenting
 Nutrition and Wellness
 Intro to Culinary Arts
 Introduction to Fashion Careers, Fashion Careers I
 Culinary Arts I
 Culinary Arts II
 Hospitality, Tourism, and Recreation I
 Hospitality, Tourism, and Recreation II

Intro to Culinary Arts
 Nutrition and Wellness
 Culinary Arts I (RTC only)
 Independent Living

Intro Fashions Careers
 Fashion Careers I
 Fashion Marketing
 Independent Living

Nutrition and Wellness
 Child Development and Parenting
 Independent Living
 Introduction to Culinary Arts
 Culinary Arts I (RTC only)
 Early Childhood, Education, and Services I

Restaurant Operation Specialization RTC Only
 Culinary Arts I
 Culinary Arts II

AGRICULTURE

Small Animal Care I RTC ONLY

Small Animal Care II
 Veterinary Science I

Small Animal Care II RTC ONLY

Small Animal Care I
 Veterinary Science II

Veterinary Science I RTC ONLY

Veterinary Science II
 Small Animal Care I

Veterinary Science II RTC ONLY

Veterinary Science I

HEALTH / MEDICAL SCIENCES (RTC ONLY)

Emergency Medical Responder

Introduction to Health and Medical Sciences

Emergency Medical Technician I

Emergency Medical Technician II

Emergency Medical Technician II

Emergency Medical Technician I

Emergency Medical Telecommunications

Criminal Justice I
 Introduction to Health and Med. Sciences
 Medical Terminology

Human Body Systems PLTW RTC Only

Principles of the Biomedical Sciences

Principles of Biomedical Science (PLTW)

Human Body Systems (PLTW)

Intro Health and Med. Sciences

Emergency Medical Responder
 Telecommunications
 Medical Terminology
 Sports Medicine I/Athletic Training I

Medical Laboratory Technology I RTC Only
 Medical Laboratory Technology II

Medical Laboratory Technology II RTC Only
 Medical Laboratory Technology I

Medical Terminology
 Emergency Medical Telecommunications
 Intro Health and Med. Sciences
 Medical Administration

Nurse Aide I
 Nurse Aide II

Nurse Aide II
 Nurse Aide I

Pharmacy Technician I
 Pharmacy Technician II
 Intro Health and Med. Sciences

Pharmacy Technician II
 Pharmacy Technician I
 Intro Health and Med. Sciences

Radiologic Technology I RTC Only
 Radiologic Technology II

Radiologic Technology II RTC Only
 Radiologic Technology I

CAREER CONNECTIONS

Virginia Teachers for Tomorrow I
 Child Development & Parenting
 Early Childhood, Education, & Services I
 Early Childhood, Education, & Services II

Virginia Teachers for Tomorrow II

CTE Industry Credentials

The Industry Certification: High School Industry credentialing program was developed to encourage more students to work toward a selected industry credential or state license while pursuing a high school diploma. A credential is defined as a state-issued professional license, full industry certification, course pathway industry certification, and occupational competency assessment. All CTE courses prepare students for the possible Career and Technical Education Consortium of States Workplace Readiness Skills for the Commonwealth certification. Approved credentials are being used for awarding student-selected verified credit (required for graduation for both the standard and advanced studies diploma). You can obtain more detailed information with the following link: http://www.doe.virginia.gov/instruction/career_technical/path_industry_certification/index.shtml

Below is the list of CTE courses and their associated available industry certification credential:

Course Title	Available Credential
Accounting	Accounting, Basic Assessment (NOCTI); Workplace Readiness Skills for the Commonwealth
Accounting, Advanced	Accounting, Basic Assessment (NOCTI); Accounting, Advanced Assessment (NOCTI); Workplace Readiness Skills for the Commonwealth Examination
Army JROTC I	None
Army JROTC II	Armed Services Vocational Aptitude Battery Examination, Workplace Readiness Skills for the Commonwealth, JROTC Leadership and Employability Skills Assessment
Army JROTC III	Armed Services Vocational Aptitude Battery Examination, Workplace Readiness Skills for the Commonwealth, JROTC Leadership and Employability Skills Assessment
Army JROTC IV	Armed Services Vocational Aptitude Battery Examination, Workplace Readiness Skills for the Commonwealth, JROTC Leadership and Employability Skills Assessment
Aerospace Technology I	Workplace Readiness Skills for the Commonwealth Examination
Aerospace Technology II	Workplace Readiness Skills for the Commonwealth Examination
Auto Body Technology I	Automotive Service Excellence (ASE) Entry Level Certification; Workplace Readiness Skills for the Commonwealth Examination
Auto Body Technology II	Automotive Service Excellence (ASE) Entry Level Certification; Workplace Readiness Skills for the Commonwealth Examination
Automotive Technology I	Automotive Service Excellence (ASE) Entry Level Certification; Workplace Readiness Skills for the Commonwealth Examination
Automotive Technology II	ASE Entry Level Certification; SkillsUSA: Customer Service Examination; Aviation Maintenance Technology I :Workplace Readiness Skills for the Commonwealth Examination; FAA Remote Pilot Small Unmanned Aircraft Systems Certification Examination; Small Unmanned Aircraft Systems (UAS) Safety Certification Examination

Aviation Maintenance Technology I	Aviation Maintenance Technology II: Workplace Readiness Skills for the Commonwealth Examination; FAA Remote Pilot Small Unmanned Aircraft Systems Certification Examination; Small Unmanned Aircraft Systems (UAS) Safety Certification Examination
Baking and Pastry Specialization	ProStart Certificate of Achievement Examinations; ServSafe Manager Certification Examination; Workplace Readiness Skills for the Commonwealth
Business Law	Workplace Readiness Skills for the Commonwealth
Carpentry I	CORE: Introductory Craft Skills Entry-Level Assessment (NCCER); Workplace Readiness Skills for the Commonwealth Examination
Carpentry II	CORE: Introductory Craft Skills, National Construction Career Test (NCCER); Workplace Readiness Skills for the Commonwealth Examination
Child Development and Parenting (36 Weeks)	The Broadfield FACS Assessment; Leadership Essentials Assessment (AAFCS); Workplace Readiness Skills for the Commonwealth Examination
Civil Engineering & Architecture PLTW	In this specialization course for Project Lead the Way (PLTW), students collaborate on both the development of community-based building and design projects and conceptual design for project presentations; Workplace Readiness Skills for the Commonwealth Examination
Computer Information Systems	Microsoft Office Specialist (MOS) Examinations; Workplace Readiness Skills for the Commonwealth
Computer Information Systems, Advanced	Microsoft Office Specialist (MOS) Examinations; Workplace Readiness Skills for the Commonwealth Examination
Cosmetology I	Customer Service Examination (SkillsUSA Career Essentials); Workplace Readiness Skills for the Commonwealth Examination
Cosmetology II	Customer Service Examination (SkillsUSA Career Essentials); Workplace Readiness Skills for the Commonwealth Examination
Cosmetology III	Cosmetology Examination (Board of Barbers and Cosmetology -Virginia Department of Professional and Occupational Regulation); Workplace Readiness Skills for the Commonwealth Examination
Criminal Justice I	Workplace Readiness Skills for the Commonwealth Examination
Criminal Justice II	Certified Emergency Telecommunicator Examination; Workplace Readiness Skills for the Commonwealth Examination
Culinary Arts I	ProStart Program End-of-Course Examination (Level 1): Education Foundation of the National Restaurant Association; ServSafe Manager Certification (National Restaurant Association) Culinary Arts Assessment
Culinary Arts II	ProStart Program End-of-Course Examination (Level 2): Education Foundation of the National Restaurant Association; ServSafe Manager Certification (National Restaurant Association), Culinary Arts Assessment
Cybersecurity Fundamentals	Microsoft Technology Associate (MTA) Examinations; Workplace Readiness Skills for the Commonwealth Examination
Cybersecurity Systems Technology	Security+ Certification Examination; A+ Certification Examination; Workplace Readiness Skills for the Commonwealth Examination

Cybersecurity Systems Technology, Adv	Security+ Certification Examination; A+ Certification Examination; Workplace Readiness Skills for the Commonwealth Examination
Design, Multimedia, & Web Technologies	Microsoft Office Specialist (MOS) Examinations; Workplace Readiness Skills for the Commonwealth Examination
Design, Multimedia & Web Technologies, Advanced	Microsoft Office Specialist (MOS) Examinations; Workplace Readiness Skills for the Commonwealth Examination
Digital and Social Media Marketing	Workplace Readiness Skills for the Commonwealth Examination
Digital Applications	Workplace Readiness Skills for the Commonwealth Examination
Drawing & Design, Advanced	Autodesk Certified User Examination (Certiport); Certified SolidWorks Associate Exam; Workplace Readiness Skills for the Commonwealth Examination
Early Childhood, Education, and Services I	Early Childhood Development and Services Assessment; Workplace Readiness Skills for the Commonwealth Examination
Early Childhood, Education, and Services II	Early Childhood Education & Care Advanced Assessment (NOCTI); Workplace Readiness Skills for the Commonwealth Examination
Economics & Personal Finance	WISE Financial Literacy Certification; Workplace Readiness Skills for the Commonwealth Examination
Education for Employment I - Preparation	None
Education for Employment II - Preparation	None
Electricity I	Workplace Readiness Skills for the Commonwealth Examination
Electricity II	International Code Council Residential Electrical Inspector (E1) Examination; Workplace Readiness Skills for the Commonwealth Examination
Emergency Medical Responder	Emergency Medical Responder Certification; Workplace Readiness for the Commonwealth Examination
Emergency Medical Technician I	Workplace Readiness Skills for the Commonwealth Examination
Emergency Medical Technician II	Emergency Medical Technician Examination; Workplace Readiness Skills for the Commonwealth Examination
Emergency Medical Telecommunications	Certified Emergency Telecommunicator Examination; Workplace Readiness for the Commonwealth Examination
Energy and Power	Energy Industry Fundamentals Certificate; Workplace Readiness Skills for the Commonwealth Examination
Engineering Design & Development PLTW	PLTW EOC Assessment

Engineering Explorations I	Workplace Readiness Skills for the Commonwealth Examination
Engineering Analysis and Application II	Workplace Readiness Skills for the Commonwealth Examination
Engineering Concepts and Processes III	Workplace Readiness Skills for the Commonwealth Examination
Engineering Practicum IV	Workplace Readiness Skills for the Commonwealth Examination
Entrepreneurship	Workplace Readiness Skills for the Commonwealth Examination; NRF Customer Service & Sales Certification Assessment
Entrepreneurship, Advanced	Workplace Readiness Skills for the Commonwealth Examination; NRF Customer Service & Sales Certification Assessment
Fashion Careers I	Fashion, Textiles, and Apparel Exam (American Association of Consumer Science); Workplace Readiness Skills for the Commonwealth Examination
Fashion Marketing	NRF Customer Service & Sales Certification Assessment; Fashion Merchandising Assessment (NOCTI); Workplace Readiness Skills for the Commonwealth Examination
Advanced Fashion Marketing	NRF Retail Industry Fundamentals Certification Assessment; Workplace Readiness Skills for the Commonwealth Examination
Game Design and Development	Auto Desk Certified User Exam; Workplace Readiness Skills for the Commonwealth Examination; Auto Desk Certified Professional Exam
Graphic Imaging Technology I	Workplace Readiness Skills for the Commonwealth Examination
Graphic Imaging Technology II	Adobe Certified Associate-Graphic Design & Illustration (Illustrator) Examination; Workplace Readiness Skills for the Commonwealth Examination
Hospitality, Tourism and Recreation I	Hospitality Management—Food and Beverage Assessment; Hospitality Management—Lodging Assessment; Travel and Tourism Assessment; Workplace Readiness Skills for the Commonwealth Examination
Hospitality, Tourism and Recreation II	Certified Hospitality and Tourism Management Professional Examination
Human Body Systems (PLTW)	Project Lead the Way Course Assessment; Workplace Readiness Skills for the Commonwealth Examination
Lodging Management	NRF Customer Service and Sales Certification Assessment: Workplace Readiness Skills for the Commonwealth Examination
Independent Living	Broad Field Family and Consumer Science Assessment; Workplace Readiness Skills for the Commonwealth Examination
Information Technology Fundamentals	Microsoft Office Specialist (MOS) Examinations; Workplace Readiness Skills for the Commonwealth Examination
Introduction to Culinary Arts	Culinary Arts Assessment American Association of Family and Consumer Sciences (AAFCS), Workplace Readiness Skills for the Commonwealth Examination
Introduction to Engineering Design PLTW	PLTW Examination

Introduction to Fashion Careers	Fashion, Textiles, and Apparel Assessment (American Association of Family & Consumer Science); Workplace Readiness Skills for the Commonwealth Examination ,
Introduction to Health & Medical Sciences (36 Weeks)	Workplace Readiness Skills for the Commonwealth Examination ,
Legal Administration	Microsoft Office Specialist (MOS) Examinations; Workplace Readiness Skills for the Commonwealth Examination
Strategic Marketing	NRF Customer Service and Sales Certification Assessment; Workplace Readiness Skills for the Commonwealth Examination
Marketing, Advanced	Customer Service and Sales Certification (National Retail Federation Foundation)
Marketing Management	Customer Service and Sales Certification Assessment (National Retail Foundation); Workplace Readiness Skills for the Commonwealth Examination
Master Barbering I	Customer Service Examination (SkillsUSA Career Essentials); Workplace Readiness Skills for the Commonwealth
Master Barbering II	Virginia State Board Barbering Licensure Exam (Board of Barbers and Cosmetology-Virginia Department of Professional and Occupational Regulation); Workplace Readiness Skills for the Commonwealth Examination
Master Barbering III	Virginia State Board Barbering Licensure Exam (Board of Barbers and Cosmetology-Virginia Department of Professional and Occupational Regulation); Workplace Readiness Skills for the Commonwealth Examination
Medical Administration (36 Weeks)	Medical Administration Assistant Certification (MAAC) Examination; Workplace Readiness Skills for the Commonwealth Examination
Medical Laboratory Technology I	Certified or Registered Phlebotomy Technician; Workplace Readiness Skills for the Commonwealth Examination
Medical Laboratory Technology II	Certified or Registered Phlebotomy Technician; Workplace Readiness Skills for the Commonwealth Examination
Medical Terminology	Workplace Readiness Skills for the Commonwealth Examination
Motorsports Technology I	Workplace Readiness Skills for the Commonwealth Examination
Motorsports Technology II	Core: Introductory Craft Skills Entry-Level Assessment; Workplace Readiness Skills for the Commonwealth Examination
Nurse Aide I	Workplace Readiness Skills for the Commonwealth Examination
Nurse Aide II	Certified Nurse Aide Examination (VA Board of Nursing); Workplace Readiness Skills for the Commonwealth Examination
Nutrition & Wellness	Broad Field FACS Assessment; Workplace Readiness Skills for the Commonwealth Examination
Office Administration	Microsoft Office Specialist (MOS) Examinations; Workplace Readiness Skills for the Commonwealth Examination
Opportunities in Global Trade	Customer Service and Sales Certification Assessment (National Retail Foundation); Workplace Readiness Skills for the Commonwealth Examination

Opportunities in Global Trade, Advanced	Customer Service and Sales Certification Assessment (National Retail Foundation), Workplace Readiness Skills for the Commonwealth Examination
Pharmacy Technician I	Workplace Readiness Skills for the Commonwealth Examination
Pharmacy Technician II	Certified Pharmacy Technician (CPhT) Examination; Workplace Readiness Skills for the Commonwealth Examination
Principles of Biomedical Science (PLTW)	PLTW Examination; Workplace Readiness Skills for the Commonwealth Examination
Principles of Business and Marketing	Workplace Readiness Skills for the Commonwealth Examination
Principles of Engineering (PLTW)	PLTW Examination; Workplace Readiness Skills for the Commonwealth Examination
Programming	Computer Programming Assistant (NOCTI); Workplace Readiness Skills for the Commonwealth Examination
Programming, Advanced	Computer Programming Assistant (NOCTI); Workplace Readiness Skills for the Commonwealth Examination
Radiologic Technology I	Limited Licensed Radiology Technologist (LLRT) Examination (AAH); Workplace Readiness Skills for the Commonwealth Examination
Radiologic Technology II	Limited Licensed Radiology Technologist (LLRT) Examination (AAH); Workplace Readiness Skills for the Commonwealth Examination
Real Estate	Workplace Readiness Skills for the Commonwealth Examination
Renewable Energy	Energy Industry Fundamentals Certificate; Workplace Readiness Skills for the Commonwealth Examination
Restaurant Operation Specialization	ProStart Certificate of Achievement Examinations; ServSafe Manager Certification Examination; Workplace Readiness Skills for the Commonwealth Examination
Small Animal Care I	Animal System Assessment (NOCTI); Workplace Readiness Skills for the Commonwealth Examination
Small Animal Care II	Animal Systems Assessment (NOCTI); Certified Veterinary Assistant Examination (Texas Veterinary Medical Association); Pet Sitters Examination; Workplace Readiness Skills for the Commonwealth Examination
Software Engineering Essentials PLTW	PLTW Assessment; Software Development Certification Tests; Computer Programming Assessment
Software Engineering PLTW	PLTW Assessment
Sports and Entertainment Management	NRF Customer Service and Sales Certification Assessment Workplace Readiness Skills for the Commonwealth Examination
Sports and Entertainment Marketing	NRF Customer Service and Sales Certification Assessment Workplace Readiness Skills for the Commonwealth Examination

Technical Drawing and Design	Autodesk Certified User Examination; Workplace Readiness Skills for the Commonwealth Examination
Technology Foundations	Workplace Readiness Skills for the Commonwealth Examination
Technology of Robotic Design	Workplace Readiness Skills for the Commonwealth Examination
Technology Transfer	Workplace Readiness Skills for the Commonwealth Examination;
Unmanned Aircraft Systems	Workplace Readiness Skills for the Commonwealth Examination; FAA Remote Pilot Small Unmanned Aircraft Systems Certification Examination; Small Unmanned Aircraft Systems (UAS) Safety Certification Examination
Veterinary Science I	Animal Systems Assessment (NOCTI); Workplace Readiness Skills for the Commonwealth Examination
Veterinary Science II	Animal Systems Assessment (NOCTI); Certified Veterinary Assistant Exam (American Allied Health); Veterinary Medical Applications Certification for Examination Elanco; Workplace Readiness Skills for the Commonwealth Examination
Virginia Teachers for Tomorrow I	Educational Fundamentals Assessment (AAFCS) Workplace Readiness Skills for the Commonwealth Examination
Virginia Teachers for Tomorrow II	Educational Fundamentals Assessment (AAFCS) or Praxis Core Academic Skills for Educators Tests (ETS); Workplace Readiness Skills for the Commonwealth Examination
Welding I	NCCT Core: Introductory Craft Skills, National Construction Career Test (NCCER); Workplace Readiness Skills for the Commonwealth Examination
Welding II	Welding Level One Entry-Level Assessment; Workplace Readiness Skills for the Commonwealth Examination

Virtual Course Offerings

Richmond Public Schools offers a variety of courses in two virtual formats; in SY 24-25 those formats are Edgenuity and Virtual Virginia (a program run by the Virginia Department of Education). For courses offered for possible high school credit, standard units of credit are awarded for successful completion of such courses when the course is equivalent to that offered in the regular school program and the work is done under the supervision of a licensed teacher qualified in the relevant subject areas. A verified unit of credit may be earned when the student has successfully completed the requirements specified in 8 VAC 20-131-110.

Virtual courses are offered at no-cost to the student and are scheduled based on student need and scheduling constraints. For more information, students and families should consult their school counselor.

Online/Virtual Courses

Online courses for initial Credit are offered to RPS students who cannot fit a traditional course into their schedule. Below is the list of courses that *may* be offered based on student need. Online courses are aligned to the Virginia state standards. In addition to being available for use for initial credit in high schools, teachers have access to their content as a supplemental resource for classroom instruction.

- *Algebra I*

- *Algebra II*
- *Algebra, Functions, & Data Analysis*
- *AP English Language & Composition*
- *AP English Literature & Composition*
- *AP Environmental Science*
- *AP Human Geography*
- *Biology I*
- *Chemistry I*
- *Earth Science I*
- *Economics & Personal Finance*
- *English - Grade 10*
- *English - Grade 11*
- *English - Grade 12*
- *English - Grade 9*
- *Environmental Science*
- *French I*
- *French II*
- *French III*
- *German I*
- *German II*
- *Health and Physical Education – Grade 9*
- *Health and Physical Education – Grade 10*
- *Latin I*
- *Latin II*
- *Mathematical Analysis/Pre-Calculus*
- *Physics I*
- *Probability & Statistics*
- *Spanish I*
- *Spanish II*
- *Spanish III*
- *Virginia & U.S. Government*
- *Virginia & U.S. History*
- *World Geography*
- *World History & Geography 1500 A.D. to the Present*
- *World History & Geography to 1500 A.D.*

Online coursework may also be used in specific circumstances for Credit Recovery and SOL remediation. Credit Recovery is available for students who lose credit due to attendance policies or as otherwise prescribed and approved by their school counselor and principal as part of their graduation plan. Such coursework may be used for SOL remediation in situations where a student needs one or more verified credits to graduate and has taken and failed the SOL multiple times.

Virtual Virginia

As a program of the Virginia Department of Education, Virtual Virginia (VVA) offers online Advanced Placement (AP®), world language, core academic, and elective courses to students throughout the Commonwealth and nation. VVA is committed to providing high-quality, rigorous course content with the flexibility to meet schools' and students' varied schedules. This program strives to provide instruction that meets the individual needs of students. Virtual learning is the new frontier in today's educational institutions. The technology of the 21st century provides a unique opportunity for educators to reach students who want the experience of online courses.

RPS offers the following courses via the VVA program based on school requests; not all courses listed below will be offered at all schools, and courses are available in limited numbers at each school. Students and families should consult with school counselors for more information.

- *American Sign Language I*
- *Arabic I*
- *Arabic II*
- *Chinese I*
- *Chinese II*
- *Chinese III*
- *Creative Writing*
- *Economics and Personal Finance*
- *French II*
- *French III*
- *Introduction to Game Design and Development*
- *Latin I*
- *Latin II*
- *Psychology*
- *World Mythology*
- *Advanced Placement Courses by request*

Addenda – Academic Guidelines, Practices, and Procedures for High School

The section provides additional information about important academic guidelines, practices and procedures for high school students. Details about where to find more information for each topic are found at the bottom of the relevant sub-section, as available.

Academic and Career Planning and Opportunities

Academic and Career Plans and Diploma Type

Starting in eighth grade, RPS students will meet with their school counselor(s) annually to create and update their four-year high school plan. The overarching objective of these meetings is for students to have an opportunity to select and monitor their progress toward their selected diploma type. Students along with their parent(s)/guardian(s) should begin this process by deciding whether to pursue a Standard or an Advanced high school diploma. As students matriculate to high school, counselors will continue to work closely with students and parents/guardians to update the plan, evaluate course selections, and determine if students are on track to meet all the requirements for their selected diploma type.

Process for Changing Diploma Types

In the event that a student would like to change their diploma type, they have the option to do so, pending principal and parent/guardian approval. After consulting with parents/guardians, students should contact their school counselor to request a diploma type change. The school counselor will then review the student's graduation progress on the new diploma type, consider the unique circumstances prompting the change, and make a recommendation to the principal. Once a student's diploma type is changed, they must meet with their counselor to discuss their graduation progress.

Course Selection Process

The Course Request Process for SY22-23 is an opportunity for students to think carefully about their interests, achievements, and educational and career goals. Students and families should give very serious consideration to this process and consult with their counselor(s), teacher(s), and other school team members to request courses that satisfy both academic interests, progress toward graduation needs, and post-secondary goals.

The process for the course selection process is generally as follows:

1. School counselors meet with students in the winter and early spring individually to review and update academic and career plans.
2. In the winter, school counselors hold class meetings to explain course offerings and graduation requirements.
3. After publication of the Program of Studies, school counselors host sessions for families to provide information on course offerings and graduation requirements.
4. School counselors visit feeder schools to share course offerings and discuss the process.
5. Students, with their family, complete the course selection using the SchoolLinks platform, available to all students via Clever, indicating course preferences.
6. Students receive a draft schedule.
7. Students have the opportunities to make changes, prior to the start of the school year.
8. Prior to the first day of school, students will receive their schedule either by mail or pick-up at the school.

Add/Drop Procedures

A student who wishes to drop a course on their current schedule *during the school year* may do so with the permission of their parent/guardian, principal, and school counselor at any time up to the *10th day of school (or their 10th day if the student transferred mid-year)*. Approved dropped courses will not appear on the student's transcript and are not calculated in the GPA. There is no assurance that a student who drops a course will be able to add another credit bearing course in the same year.

Waiver from Taking a Full Load of Coursework

Students are expected to maintain a full-day schedule as defined by being enrolled in eight scheduled courses. Students with unique personal, family, or economic needs may still request a waiver of full day schedule requirements by speaking with their school counselor. Approval by the school principal and Chief of Schools is required to be waived from a full course load. Waiver requests are due no later than the *10th day of school*. Any students not fully enrolled by that date who have not obtained a waiver will have their schedule completed with the assistance of their school counselor. Transportation arrangements for a student on this modified schedule are the responsibility of the family.

Students considering this option should discuss possible implications for college admissions and Virginia High School League (VHSL) eligibility with their school counselor prior to reducing their schedule. Schools will attempt to honor all requests; however, scheduling conflicts may prohibit some students from accessing this option.

Access to Courses

As required by federal laws and regulations, the Richmond City Public School Board does not discriminate on the basis of gender, color, race, religion, handicapping conditions, or national origin in employment or in its educational programs and activities. Every student shall have access to the high school courses of their choice, and with the exception of specific prerequisites, no student shall be denied access to a course.

Transfer Students

Transcript Evaluation, Translation of Grades & GPA Calculations

Students entering a Virginia public high school for the first time at the beginning of or during the 9th grade are required to meet all of the same graduation requirements required of non-transfer students.

Students entering a Virginia public high school for the first time at the beginning of or during the 10th grade or later should refer to the tables on the [Information for Transfer Students](#) page of the VDOE website to determine the applicable graduation requirements.

Students transferring within 20 days of their senior year shall be given every opportunity to earn a Standard Diploma or Advanced Studies Diploma. If it is not possible for the student to meet the requirements for a Standard Diploma or Advanced Studies Diploma, arrangements should be made for the student's previous school to award the diploma. If these arrangements cannot be made, the school division can submit a waiver of the verified unit of credit requirements to the VDOE.

Out of District Grade Translation

Grades of students who transfer from out of district will be translated to the RPS transcript per the letter grade that appears on the previous district's transcript. In cases where a numerical grade is provided on the transcript, that number will be translated as a grade based on the RPS grading scale (e.g., if a student has an 86 as a final grade on their transcript, that will appear as a B on their RPS transcript)

Concurrent Enrollment (Individual Courses taken outside of RPS programs)

Students in the 11th and 12th grade may be permitted to enroll in college level courses prior to graduating from high school and must receive permission from the high school principal. The Concurrent Enrollment Form must be signed by the parent or legal guardian and the principal or designee for each requested semester or term. Individual families are responsible for all tuition, books, and fees associated with concurrent enrollment courses.

Beginning in the 2021-22 school year, RPS will honor certain college courses taken outside of the ECA or CTE program as dual credit. Specifically, this would allow juniors and senior students who take such courses on their own (summer or evenings) to apply these courses towards high school graduation requirements. The following courses would be eligible for receiving high school credit should students earn college credit through Reynolds Community College:

- English 11, English 12
- Trigonometry/Probability/Statistics, AP Calculus, Probability & Statistics

- Biology, Chemistry, Physics
- Virginia & US History, Virginia & US Government, World History & Geography 1500-Present

Upon successful completion of the course, students must submit their Reynolds transcript to their high school counselor to earn high school credit and have that reflected on their high school transcripts. Families must meet all Reynolds Community College deadlines for enrollment. All forms and deadlines can be found on the Reynolds [Opportunities for High Schoolers](#) page. Courses listed under the Early College Academy course sequence and courses aligned to the [Passport](#) and/or the Universal Certificate of General Studies are available to students.

Eligibility for Early College Academy and Dual Enrollment

In keeping with the Virginia Plan for Dual Enrollment and Reynolds Community College admission standards, all students, regardless of course request, must minimally score at the Ability-to-Benefit level on the Virginia Placement Test (VPT) in order to be eligible to participate in dual enrollment offerings.

In some cases, students may be eligible to waive the VPT as follows:

- Students who score a minimum of 480 on Critical Reading/Writing (ERW combined score) sections of the SAT are waived from taking the placement test.
- Students who have scored at least a 530 on the Math section of the SAT, are waived from taking the VPT Math placement test. Waivers only apply to students taking a math course below the MTH 163 level. Students requesting MTH 163 and above must take the VPT Math placement test.
- Students requesting science courses with math prerequisites (chemistry or physics), must take the VPT Math placement test.
- Students who score a minimum of 18 on the English section of the ACT, and 18 on the reading section, are waived from taking the VPT.

Early College Academy Course Sequence

	Grade 9 (Yearlong RPS)	Grade 10 (Yearlong RPS)	Grade 11			Grade 12	
			Fall	Spring	May	Fall	Spring
English	Follow recommended RPS Course Sequences		English 111	English 112	N/A	ENG 242	ENG 244*
Mathematics			Math Courses at RPS			MAT 154	MAT 245
Science			Science Courses at RPS			BIO 101	BIO 102
History & Social Sciences			Hist 121	Hist 122	N/A	PLS 135	PLS 136
World Languages			SPA 101	SPA 102	SPA 102	N/A	N/A

Health & PE		Psych 200 SDV 100	Psych 230 HLT 115	Elective
Arts		Elective	ITE 115	Elective

*Students have choices for Spring 12th grade English. The scheduled courses depend on student selections.

For more information, consult the [Early College Academy webpage](#). Students should consult college admissions officers regarding transferable credits between colleges and universities.

Eligibility and Selection for Summer Residential Governor's School for Interdisciplinary Studies

The Summer Residential Governor's Schools (SRGS) provides high school juniors and seniors with intensive educational experiences in visual and performing arts; humanities; mathematics, science, and technology; or through mentorships in marine science, or engineering. 2024 Summer Residential Governor's School options are found in the introductory section of this document.

Suggested 2025 Summer Locations

- Agriculture (4 weeks) June/July 2025 Virginia Tech University (Engineering, Robotics +)
- Humanities (4 weeks) June/July 2025, Radford University
- Mathematics, Science, and Technology (4 weeks) June/July 2025, Lynchburg College
- Medicine and Health Sciences (4 weeks) June/July 2025, Virginia Commonwealth University Program
- JLAB Mentorship (4 weeks) June /July 2025, William & Mary University
- Virginia Institute of Marine Science Mentorship (4 weeks) June/July 2025, Christopher Newport University
- Visual and Performing Arts (4 weeks) June/July 2025, Radford University

Summer Residential Governor's School Selection Timeline

Timeframe	Description
October 2024	Applications made available by the VDOE via the Internet. Suggested time frame for interested students to let the appropriate school or division contact know that they would like to apply for the Summer Governor's School Program. Note: Applications are submitted directly to RPS and NOT to the VDOE.
October 2024	Suggested time frame for Visual and Performing Arts (VPA) students to notify the appropriate RPS contact, beginning with the school counselor and then submitted through the division contact (Gifted and Talented Coordinator), students will select the time and the date of their adjudication.
November 2024	VDOE deadline for RPS to submit nominees for statewide VPA adjudication. School division and private school regional adjudication quotas are available

	on the VDOE website in the public and private school administrators' guide.
January 2025	Visual and Performing Arts Assessment VPA, Norfolk VA
Mid February 2025	Suggested time frame for applications with teacher recommendations to be submitted to the appropriate school or division contact.
February 2025	Suggested time frame for the RPS Selection Committee to meet and review applications for nominee selection.
February 2025 TBD	VDOE deadline for the RPS Selection Committee to mail applications and to send the nomination report form electronically through SSWS to the VDOE. School division and private school regional adjudication quotas are available at the VDOE Website. The RPS Selection Committee will notify students that they were NOT selected as nominees from the division.
April 2025 TBD	Gifted Coordinators receive a list of students with their status. The following week, the VDOE's email notifications are sent directly to the students, indicating the status of their applications.

Evaluation of Academic Performance and Progress to Graduation

Grading Scale, Grade Point Average & Course Weights

A student's grade point average (GPA) and class rank shall be computed for the following purposes: (1) to determine honor graduates; (2) to determine if a student is eligible for the diploma seal awarded by the Virginia Board of Education; (3) to communicate to college admissions offices and other agencies designed by the student and/or parent/guardian; and (4) to determine the valedictorian(s) and salutatorian(s) for the graduating class.

The chart below indicates the RPS grading scale and grade values. Honors, Advanced Placement, International Baccalaureate Diploma Program (IBDP), and Dual Enrollment courses are assigned weighted values.

RPS Grading Scale	Final Grade	Standard	Honors	Advanced Placement (AP)	Dual Enrollment	IBDP
A (Outstanding)	90-100	4	5	6	6	6
B (Above Average)	80-90	3	4	5	5	5

C (Average)	70-79	2	3	4	4	4
D (Below Average)	60-69	1	2	3	3	3
F (Unsatisfactory)	0-59	0	0	0	0	0

Attendance and Impact on Grades

Students risk losing credit in courses where they miss 18 or more days of class, even if they earn a passing grade. In some cases, students may request a waiver from this requirement and possibly earn credit for the course. Such waivers will only be granted in cases of extenuating circumstances. See the Student Code of Responsible Ethics (SCORE) and School Board Policy 8-2.4 (Student Attendance and Absences/Tuancy) for more information on the attendance policy and how it may impact grades and graduation progress.

Promotion, Class Cohort and Year of Graduation Designation

Upon entering high school, students are assigned a "Cohort Year," which is the expected year of graduation; for example, students entering 9th grade in 2019-20 will be assigned a Cohort Year of 2024, meaning they are expected to graduate at the end of the 2023-24 school year. At the end of each academic year, students will receive a grade-level (9th, 10th, 11th, 12th) designation based upon the number of credits earned that are required for high school graduation; and if necessary, the actual "Year of Graduation (YOG)," may be adjusted accordingly.

Students must earn the minimum number of standard credits and verified credits as required for the diploma type of their choice.

- **Standard Credit:** A standard unit of credit awarded when a student passes a high school credit-bearing course.
- **Verified Credit:** Earned when a student passes the SOL test associated with the respective course.

In the event that a student passes a course but fails the SOL test, students will receive course credit, and will be provided remediation opportunities in preparation to retake the SOL test to earn the associated verified credit if they have not fulfilled the graduation requirement for verified credit(s) for that subject area.

Grade-level designation shall be determined as follows, based on the credits earned at the end of the school year. The totals below reflect the minimum number of credits to begin the year with the following grade-level designation (please note these are *not* the total numbers needed to meet graduation requirements).

Standard Diploma

Grade	Cumulative Core Credits Earned (ELA, Math, Science, Social Sciences)	Cumulative Standard Credits Earned (Core plus electives)	Cumulative Verified Credits Earned
-------	-------------------------------------------------------------------------	-------------------------------------------------------------	------------------------------------

9th	>3	>5	0
10th	3	5	1
11th	6	10	2
12th	9	14	3

Advanced Studies Diploma

Grade	Cumulative Core Credits Earned (ELA, Math, Science, Social Sciences)	Cumulative Standard Credits Earned	Cumulative Verified Credits Earned
9th	>3	>8	0
10th	3	8	1
11th	7	14	2
12th	11	18	3

Remediation & Repeating Coursework

Students who fail to successfully complete a course required for graduation are strongly encouraged to enroll in summer school immediately following the school year in which they took the course. If the course is associated with a SOL assessment that would provide a verified credit to meet graduation requirements, students will also receive remediation during summer school and have the opportunity to retake the exam during the summer. RPS strongly encourages students to enroll in remediation opportunities in a timely manner so as not to jeopardize on-time graduation.

Academic Integrity

Students shall not cheat, plagiarize or knowingly make false statements with respect to any assignments or tests. Depending on the seriousness of the violation, the student may not receive credit for the particular piece of work or course in question, and/or may lose credit for the course if appropriate.

A student found using a mobile telephone or any unauthorized device during any testing situation will have the device immediately confiscated and will lose the privilege of using the devices for the remainder of the school year. Test results will be marked as invalid and result in a score of zero.

Distinctions for Academic Performance

Honor Roll

Students can attain honor roll status at the end of each nine-week marking period, semester, and year by earning a grade point average of 3.0 or above and no grade below C.

Class Rank, Valedictorian & Salutatorian

Class rank will be determined by assigning the student with the highest GPA the rank of number one (1); the second highest, the rank of number two (2), etc. In cases where more than one student has the same numerical average, all students with the average will be given the same rank. The next highest average will assure the next rank position. The student with the next highest average will have the rank of three (3) in the class.

Example:

- Student No. 1 – 3.9880 Rank 1
- Student No. 2 – 3.9880 Rank 1
- Student No. 3 – 3.8972 Rank 3
- Student No. 4 – 3.8972 Rank 3

Students are ranked numerically in descending order according to GPA at the end of each high school year in grades nine through eleven and at the end of the first semester of the senior year. All credit bearing courses will be used to compute the GPA and class rank. Courses with the letter grade of "I" or "P/F", those that are worth no credit and others specifically flagged for exclusion are excluded from GPA calculation. GPA and class rank are reported to colleges and universities on a 4.0 scale at the end of grade 11 and at the end of the first semester of grade 12.

Pupils transferring into or within the school division after the first day of the junior year shall receive a GPA and a standing as to percentage, (i.e., top 5%, top 10%, etc.) but shall not be included in the numerical ranking nor be eligible for selection of valedictorian or salutatorian as discussed below:

$$\text{Points} \times \text{Credits} = \frac{\text{Calculated Points Total}}{\text{Total Credits Attempted}} = \text{GPA}$$

The student or students with the highest rank at the end of the first semester of the senior year will be the valedictorian(s) of the graduating class. The student or students with the second highest rank at the end of the first semester of the senior year will be the salutatorian(s). In those instances where two or more students have an identical GPA that results in a rank of number one, the students shall be designated co-valedictorians.

Where there are two or more students with an identical GPA that results in a rank of number two, the students shall be designated as co-salutatorians for the class. To be eligible for valedictorian and salutatorian designation, a pupil must complete the last four consecutive semesters prior to graduation in the high school from which he or she will be graduating. Long-term homebound, exchange and early graduation pupils shall not be eligible for valedictorian and salutatorian designation

Scholastic Standout

The Scholastic Standouts program recognizes selected students in 5th, 8th, and 12th grades. These students are chosen through a selection process based on outstanding academic achievement, positive attitude towards school, exemplary attendance, strong coping skills, demonstrated leadership ability and engagement in school and community services. Inspired by John

Templeton, a former editor at the Richmond Afro-American newspaper, Scholastic Standouts has recognized over 1,600 RPS students since its inception in 1981.

Maggie L. Walker Service Awards

The Maggie L. Walker Service Award is awarded to one student from each school who has taken extraordinary steps to positively impact the culture in their school for the benefit of all students. Nomination forms will be shared in winter and award winners will be recognized before the end of the school year.

School/Family Communication of Student Progress

Report Cards and Progress Reports

Parents are provided written information concerning student progress throughout the year. The school year for all comprehensive high schools is divided into quarters of nine weeks each; students receive report cards following each quarter. Interim reports are sent home to parents in the middle of the first and third quarters. Consequently, each parent receives a minimum of six written progress reports for each student each year in addition to numerous opportunities for parent/teacher dialogue through written correspondence, conferences, email, and telephone contacts.

Online Access

Richmond Public Schools grants parents/guardians' access to the Aspen Online Family Information Portal. Access to the Parent Portal provides timely, relevant, and easily accessible information about a student's education. By opening the Parent Portal, families have full access to all of their student's school information and can thus take ownership in their student's education as they move through Richmond Public Schools. Family accounts contain important and confidential information about individual students, so for the security of such data, families are instructed to protect their login information as they would any other personal account.

At the start of the school year, school staff will provide families information about how to access their student's portal account. This account will grant access to 'Grades', 'Attendance', and 'Assignments'. Families will then log into their portal account to confirm access. Families should keep this letter so they can reference it in the future.

The family portal web address is: <https://aspen.rvaschools.net/aspen>

Once an account is activated and a family logs in, they will have access to the following:

- **Family** – All of a family's students will be listed in this tab. If there are errors in any data (e.g., address, phone number, etc.), families should reach out to school front office staff to provide up to date information.
- **Academics** – Select the side-tabs to view student details, contact information, attendance information, etc. Please review this information for accuracy and again, families should notify front office staff if they identify errors in the data. On the *Academics* tab, families can view the student's current schedule and grades. Select a course to view the details of the course. Click the *Assignments*

side-tab to view information about grades for each.

- **Help** – If families have questions or concerns about how to navigate the Aspen Online Family Information Portal, they should reach out to front office staff.

Process for Challenging Grades/Teacher Grade Changes

If a parent or guardian has a question regarding a student grade, they may contact the teacher of the course in question to review the student's grade. If it is determined that the grade was assigned in error, the teacher will submit a grade change request to the school counselor. The school counselor will then adjust the student's grade in the student information system and notify the parent when the change has taken effect.

Student Support Programs

Homebound Instruction

The Virginia Board of Education, through the regulations establishing *Standards for Accrediting Public Schools in Virginia*, requires that "Homebound instruction shall be made available to students who are confined at home or in a health care facility for periods that would prevent normal school attendance based upon certification of need by a licensed physician or licensed clinical psychologist. For students eligible for special education or related services, the individualized education program team must revise the IEP, as appropriate, per 8 VAC 20-131-180 to direct off-site instruction. Credit for the work completed shall be awarded when it is done under the supervision of a teacher licensed by the Virginia Board of Education and meets the requirements of 8 VAC 20-131-110."

Richmond Public Schools has the responsibility to meet the educational needs for students who are confined to their homes for a variety of reasons, and meets these needs through homebound/home-based instruction managed by the Office of Pupil Personnel Services.

Overview of Homebound Services

Homebound instruction services are provided by the Richmond Virtual Academy and are available to all students who are enrolled in RPS who meet eligibility criteria. The program is designed to provide continuity of educational services between the classroom and home setting for students whose medical needs preclude school attendance. Services may also be used to supplement classroom instruction for health-impaired children whose conditions may prevent consistent attendance (e.g., students receiving dialysis, chemotherapy, radiation treatments, etc.), or for children with disabilities that prevent regular school attendance. Students must be enrolled in RPS in order to receive RPS-provided homebound instruction.

Homebound instruction is temporary, and not intended to supplant school services. While no specific number of days can be set due to the many complex health issues which may arise, the goal is to always return the student to their school setting as soon as possible. The homebound instructor is responsible for monitoring student progress and preparing a plan for the student's return to their school.

Overview of Home-based Services

Home-based services are also provided by the Richmond Virtual Academy and are determined by a student's Individualized Education Plan team. These services may be requested by the Disciplinary Review Hearing Officer for discipline related reasons. Students who have been charged with certain charges as indicated in VA Code 16.1-260G will receive home-based services from their school of record until charges are reviewed and resolved.

More information about homebound and home-based instruction and services, including information on eligibility, procedures, implementation practices, etc., can be found on the [Home Instruction section](#) of the [Richmond Virtual Academy website](#)..

Special Education Services

Programming

RPS provides special education services for students who have been found eligible for service through the eligibility process, offering a continuum of special education services to best support the needs of our students. Students with Individualized Education Programs (IEP) and/or 504 Plans are expected to meet grade-level curriculum standards in general education classes. Although course offerings vary for students with disabilities, some students are unable to participate in the general education classes due to the severity of their unique support needs. However, courses will be closely aligned, while meeting the student's identified learning needs, according to their Individualized Education Program (IEP) and/or 504 Plan. All decisions regarding the placement of a student with a disability will be made by an Individualized Education Program (IEP) and/or 504 Plan team, in consultation with the parent(s)/guardian(s) of the child, and consistent with the Individuals with Disabilities Education Improvement Act (IDEA) or Section 504 of the American with Disabilities Act (ADA).

Students with Significant Cognitive Impairments

Some students with significant cognitive disabilities require a more restrictive setting, such as an Adaptive Classroom Environment, where the students access a Modified and/or Adaptive Curriculum that could include instruction following the Applied Studies Curriculum Map in collaboration with the Virginia Essential Standards of Learning (VESOL). High school students completing Modified or Adaptive Curriculum course work will meet the requirements for an Applied Studies Diploma. Students requiring instruction following the Virginia Essential Standards of Learning (VESOL) participate in the Virginia Alternate Assessment Program (VAAP).

Section 504 of the Rehabilitation Act of 1973

Section 504 of the Rehabilitation Act protects children and adults with disabilities from exclusion and unequal treatment in schools, jobs, and in the community. RPS students who are found eligible to receive accommodations through a Section 504 Plan must be determined to:

1. Have a physical or mental impairment that substantially limits one or more major life activities; or
2. have a record of such an impairment; or
3. be regarded as having such an impairment.

RPS students who have been found eligible for a Section 504 Plan are provided with appropriate academic adjustments and auxiliary aids and services that are necessary to afford the student an equal opportunity to participate in and access the educational environment.

Credit Accommodations

The State Board of Education has approved Guidelines for Standard Diploma Credit Accommodations for Students with Disabilities as a way to provide alternatives for students to meet the requirements for a Standard Diploma. Credit accommodations for students with disabilities may include:

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

While credit accommodations provide alternative pathways and flexibility, students receiving credit accommodations must earn both standard and verified credits required to graduate with a Standard Diploma.

A Credit Accommodations Participation Criteria Form must be completed indicating the student meets the following criteria and is eligible to receive credit accommodations for the Standard Diploma:

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

Additional information regarding Credit Accommodations for the Standard Diploma can be found at http://www.doe.virginia.gov/instruction/graduation/credit_accommodations.shtml

English Learners

The Language Instruction Educational Program (LIEP) is the RPS program established to serve students who are identified as English Learners. The purpose of the program is to support English language proficiency for students whose second language is English so they may thrive in a rigorous academic environment and exceed academic standards.

Definition of an English Learner (EL)

An EL is classified according to the federal definition as described in ESSA, Section 8101.

There are three categories of the EL status:

1. An EL who is classified as one who is aged 3 through 21 who is enrolled or preparing to enroll in an elementary school or secondary school and who was not born in the United States or whose native language is a language other than English.

2. An EL who is a Native American or Alaska Native, or native resident of outlying areas and who comes from an environment where a language other than English has had a significant impact on the individual's level of English language proficiency. (Please ask about the languages spoken at home, if above ethnic indicators are provided)
3. An EL who is migratory, whose native language is a language other than English, and who comes from an environment where a language other than English is dominant.

In addition, an EL is a student whose difficulties speaking, reading, writing, or understanding the English language may be sufficient to deny the individual:

- the ability to meet the challenging state academic standards
- the ability to successfully achieve in classrooms where the language of instruction is English, or the opportunity to participate fully in society.

High School Scheduling

English as a Second Language I, English as a Second Language II, English as a Second Language III, and English as a Second Language IV will be counted as World Language credits starting in the 9th grade. English as a Second Language courses are aligned to the WIDA English language development (ELD) standards and the grade-level Standards of Learning of Math, English, Science, and History & Social Science. Scheduling ELs into ESL electives courses is the most convenient way to ensure minutes of services, however ensuring LIEP teachers are co-teaching with content teachers is the most effective way to ensure minutes of services and teach academic language through content learning. Consult the English Learner Suggested Course Sequence in this guide for recommended scheduling using profiles of ELs in RPS.

RPS LIEP Minutes of Service				
Grade Level Clusters	Level 1	Level 2	Level 3	Level 4-4.3
Kindergarten	150 min/wk	150 min/wk	150 min/wk	150 min/wk
Grades 1-4	225 min/wk	200 min/wk	200 min/wk	150 min/wk
Grades 5-8	300 min/wk	225 min.wk	200 min/wk	150 min/wk
Grade 9-10	300 min/wk	225 min.wk	200 min/wk	150 min/wk

Gifted & Talented Services

Regulations Governing Educational Services for Gifted Students

Richmond Public Schools' Programs for the Gifted & Talented serves as an integral part of the overall RPS mission by providing a continuum of comprehensive services for all students in advancing equity, excellence, and student engagement. This continuum is accessible to students in kindergarten through twelfth grade. Such services are an essential component of

RPS's commitment to deliver a quality education for students to become global thinkers, effective problem solvers, and strive for personal excellence.

Richmond Public School provides uniform procedures for screening, referring, identifying, and serving students in kindergarten through twelfth grade who are gifted in general intellectual aptitude. Service options are available for students who excel in visual performing arts, technology, and specific academic aptitude.

These uniform procedures permit referrals from parents or legal guardians, teachers, professionals, students, peers, self, or others. An identification and placement committee reviews pertinent information, records, and other performance evidence for referred students. The committee reviews data from multiple sources selected and used consistently within the division to assess students' aptitudes in the areas of giftedness the school division serves, determine whether a student is eligible for the division's services, and determine which of the school division's service options match the learning needs of the eligible student.

Identification of students for the gifted education program is based on multiple criteria established by Richmond Public Schools and is designed to seek out those students with high aptitudes, including students for whom accurate identification may be affected because they are economically disadvantaged, have limited English proficiency, or have a disability. Data includes scores from valid and reliable instruments that assess students' potential for advanced achievement, as well as instruments that assess demonstrated advanced skills, conceptual knowledge, and problem-solving aptitudes.

Students who are found eligible by the gifted identification and placement committee are matched with service options with appropriately differentiated curriculum and instruction by Richmond Public Schools that most effectively meet the assessed learning needs of the student.

Per Statutory Authority § 22.1-16 of the Code of Virginia, Richmond Public Schools Programs for Gifted & Talented will:

- Develop a culture of academic rigor evidenced by the provision of college preparatory classes, career planning, civic duty, and open access to enrollment in advanced courses across all levels and content areas.
- Provide models of blended learning to support instruction and provide 21st century skills.
- Incorporate and target programs using culturally responsive instructional strategies to promote the acquisition of increasingly complex knowledge and skills in a social climate that fosters collaboration and positive interactions among culturally and linguistically diverse students.

The RPS Programs for the Gifted & Talented offers several options at the high school level that provide challenges and is designed to emphasize the importance of pairing services with student needs with flexible entry points. The goal is to provide opportunities for all students to experience challenges that promote continuous academic growth in a nurturing environment. The opportunities provide challenging coursework, as well as unique programs for all students, such as: honors, Advanced Placement, and International Baccalaureate Diploma Programme (TJHS only) courses. RPS also offers an Early College Academy in partnership with JSRCC and facilitates the process for students to apply to two full-time Governor's Schools, Maggie L.

Walker Governor's School for Government and International Studies and Appomattox Regional Governor's School for the Arts and Technology. Students may apply to the Summer Residential Governor's Schools hosted by multiple universities in Virginia. As part of a Central Region consortium, RPS students may also apply to a third Regional High School, CodeRVA which is lottery based.

Student Activities & Eligibility

VHSL Eligibility

Richmond Public Schools is a member of the Virginia High School League, Inc. (VHSL), providing a broad program of interscholastic athletics for students eligible; accordingly, student athletes are subject to the additional academic and student conduct requirements set forth below for students participating in VHSL interscholastic athletic competition.

To be eligible to participate in the school athletic program, a student must be a bona fide student in good standing of the school they represent. A student's academic and behavioral performance is considered in determining whether that student is in good standing in their home school (VHSL 28A-2-1, 28A-2-3).

1. A "regular" student is considered a full-time student who is in regular attendance and is carrying a schedule of subjects which, if successfully completed, will render him/her scholastically eligible for League participation the ensuing semester.
2. Any student who is under penalty of suspension, or whose character or conduct is such as to reflect discredit upon his/her school, is not considered in good standing.

28A-5-1 SCHOLARSHIP RULE-The student shall:

(a) For the first semester be currently enrolled in not fewer than five subjects, or their equivalent, offered for credit and which may be used for graduation; and have passed five subjects, or their equivalent, offered for credit and which may be used for graduation the immediately preceding year or the immediately preceding semester for schools that certify credit on a semester basis; and

(b) For the second semester be currently enrolled in not fewer than five subjects, or their equivalent, offered for credit and which may be used for graduation; and have passed five subjects, or their equivalent, offered for credit and which may be used for graduation the immediately preceding semester.

Note: Credit for courses must be recognized by the State Department of Education. Such credit is to be awarded for the semester in which the work is scheduled to be completed. Credit for summer school work must be applied on the immediately preceding semester or year.

PM 28A-5-1 SCHOLARSHIP RULE/Block Scheduling (5-94)-When a school offers four classes each semester (block scheduling), students must pass three of these four classes to be eligible the following semester. There is no yearly eligibility option (combine first and second semester passing grades), since this block scheduling is on a "stand alone" semester grade basis.

Rising 9th Graders

All rising 9th graders who otherwise meet the qualifications for participation in VHSL activities will be deemed eligible to participate in VHSL activities for the upcoming school year.

Rising 10th, 11th and 12th Graders

All rising 10th, 11th, and 12th graders who otherwise meet the qualifications for participation in VHSL activities will be deemed eligible to participate in VHSL activities for the first semester of the upcoming school year if:

1. The student's cumulative grade point average at the conclusion of the preceding school year is 2.0 or greater; or
2. The student's most recent semester grade point average was 2.0 or greater.

For eligibility in subsequent semesters, students must achieve:

1. A cumulative grade point average of 2.0 or greater for the preceding school year; or
2. A semester grade point average of 2.0 or greater for the preceding semester to retain eligibility.