

Justice High School Catalog 2024-2025

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Standard and Advanced Diploma Requirements for Students Who Enter the 9th Grade for the First Time in 2018-19 and Beyond

Standard Diploma Requirements for Graduation- 22 Credits

The requirements for a student to earn a diploma shall be those in effect when the student enters the 9th grade for the first time. The following applies to students who enter 9th grade 2018-19 and beyond.

To graduate from high school, students shall meet the minimum requirements for the Standard Diploma as outlined below, including 22 standard credits, 5 of which must be verified credits. A **standard** credit is earned when a student passes a course. A **verified** credit is earned when a student passes a course and either the associated end-of-course SOL test or completes Board-approved performance assessments. In some cases, students may utilize substitute tests, certifications, or the appeal process to earn verified credits. State guidelines prescribe the number of verified credits required for graduation for students entering a Virginia public high school for the first time during the tenth grade or after. Students with disabilities may have the opportunity to use credit accommodations to earn a Standard Diploma. Students must be found eligible for these accommodations. Consult your school counselor for specific information.

Students receive credit toward graduation for high school courses taken and passed in middle school. These courses count toward credits in the required sequences as well as toward the total number of credits required for graduation and calculation of the grade point average (GPA). Middle school parents may request that grades for any high school credit-bearing course taken in the middle school be removed from the student’s high school transcript, and therefore the student will not earn high school credit for the course. In addition, the student will not be eligible for a verified credit in any course which has been removed from the transcript. The request to remove a course from the transcript must be made in writing to the middle or high school the student will attend the following year, prior to the end of the first nine weeks of school. See current version of FCPS [Regulation 2408](https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/BGKJ7X4BCB1F/$file/R2408.3.pdf). ([https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/BGKJ7X4BCB1F/\\$file/R2408.3.pdf](https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/BGKJ7X4BCB1F/$file/R2408.3.pdf))

Standard Diploma Course Requirements (8 VAC 20-131-51)			
Subject Area	Standard Credits		Verified Credits
English	4		2
Mathematics ¹	3		1
Laboratory Science ^{2, 5}	3		1
History and Social Sciences ^{3, 5}	3		1
Health and Physical Education	2		
World Language, Fine Arts or Career and Technical Ed ⁶	2		
Economics and Personal Finance	1		
Electives ⁴	4		
AP, AV, DE, HN, or IB Course, or High-Quality Work-Based Learning Experience, or Career and Technical Education Credential ⁷			
First Aid/CPR/AED Training ⁸			
Virtual Course ⁹			
Total Credits ¹⁰	22		5

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 as approved by the Board. The Board of Education (Board) shall approve additional courses to satisfy this requirement.

² Courses completed to satisfy this requirement shall include course selections from at least two different science disciplines: earth sciences, biology, chemistry, or physics; or completion of the sequence of science courses required for the International Baccalaureate Diploma. The Board shall approve courses to satisfy this requirement. AP/IB Computer Science A and IB Computer Science SL/HL can be used to meet a science graduation credit for standard or advanced diplomas; however, it cannot be counted towards the science discipline requirement.

³ Courses completed to satisfy this requirement shall include U.S. and Virginia History, U.S. and Virginia Government, and either World History/Geography I or World History/Geography II. AP World History satisfies the requirement for World History/Geography II. Additional IB courses may also satisfy this requirement.

⁴ Courses to satisfy this requirement shall include at least two sequential electives as required by the Standards of Quality.

⁵ 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 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.

⁶ Pursuant to Section 22.1-253.13:4, Code of Virginia, credits earned for this requirement shall include one credit in fine or performing arts or career and technical education.

⁷ Students shall (i) complete an Advanced Placement, advanced, honors, International Baccalaureate, or dual enrollment course; or (ii) complete a high-quality work-based learning experience, as established by Board guidance on work-based learning; or (iii) earn a career and technical education credential approved by the board, 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 standard 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, the Armed Services Vocational Aptitude Battery (ASVAB), or the Virginia workplace readiness assessment.

⁸ Students are required to be trained in emergency first aid, cardiopulmonary resuscitation, and the use of automated external defibrillators, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation.

⁹ Students shall successfully complete one virtual course, which may be a non-credit-bearing course or elective credit bearing course that is offered online.

¹⁰ 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.

Advanced Diploma Requirements for Graduation- 26 Credits

The requirements for a student to earn a diploma shall be those in effect when the student enters the 9th grade for the first time. The following applies to students who enter 9th grade 2018-19 and beyond.

To graduate from high school with an Advanced Studies Diploma, students shall meet the minimum requirements as outlined below which include 26 credits, 5 of which must be verified credits. A **standard** credit is earned when a student passes a course. A **verified** credit is earned when a student passes a course and either the associated end-of-course SOL test or completes Board-approved performance assessments. In some cases, students may utilize substitute tests, certifications, or the appeal process to earn verified credits. State guidelines prescribe the number of verified credits required for graduation for students entering a Virginia public high school for the first time during the tenth grade or after. Students with an Individualized Education Program (IEP) may have the opportunity to use credit accommodations to earn an Advanced Studies Diploma. Students must be found eligible for these accommodations. Consult your school counselor for specific information.

Students receive credit toward graduation for high school courses taken and passed in middle school. These courses count toward credits in the required sequences as well as toward the total number of credits required for graduation and calculation of the grade point average (GPA). Middle school parents may request that grades for any high school credit-bearing course taken in the middle school be removed from the student's high school transcript, and therefore the student will not earn high school credit for the course. In addition, the student will not be eligible for a verified credit in any course which has been removed from the transcript. The request to remove a course from the transcript must be made in writing to the middle or high school the student will attend the following year prior to the end of the first nine weeks of school. See current version of FCPS [Regulation 2408](https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/BGKJ7X4BCB1F/$file/R2408.3.pdf). ([https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/BGKJ7X4BCB1F/\\$file/R2408.3.pdf](https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/BGKJ7X4BCB1F/$file/R2408.3.pdf))

Advanced Studies Diploma Course Requirements (8 VAC 20-131-51)		
Subject Area	Standard Credits	Verified Credits
English	4	2
Mathematics ¹	4	1
Laboratory Science ²	4	1
History and Social Sciences ³	4	1
World Language ⁴	3	
Health and Physical Education	2	
Fine Arts or Career and Technical Ed	1	
Economics and Personal Finance	1	
Electives ⁵	3	
AP, AV, DE, HN, or IB Course, or High-Quality Work-Based Learning Experience, or Career and Technical Education Credential ⁶		
First Aid/CPR/AED Training ⁷		
Virtual Course ⁸		
Total Credits ⁹	26	5

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 Board of Education (Board) shall approve courses to satisfy this requirement.

² 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 which incorporate SOL content from multiple academic areas. The Board shall approve courses to satisfy this requirement. AP Computer Science A and IB Computer Science SL/HL can be used to meet a science graduation credit for standard or advanced diplomas; however, it cannot be counted towards the science discipline requirement.

³ Courses completed to satisfy this requirement shall include U.S. and Virginia History, U.S. and Virginia Government, World History/Geography I, and World History/Geography II. AP World History satisfies the requirement for World History/Geography II. Additional IB courses may also satisfy this requirement.

⁴ Courses completed to satisfy this requirement shall include three years of one language or two years of two languages.

⁵ Courses to satisfy this requirement shall include at least two sequential electives as required by the Standards of Quality.

⁶ Students shall (i) complete an Advanced Placement, advanced, honors, International Baccalaureate, or dual enrollment course; or (ii) complete a high-quality work-based learning experience, as established by Board guidance on work-based learning; or (iii) earn a career and technical education credential approved by the board, 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, the Armed Services Vocational Aptitude Battery (ASVAB), or the Virginia workplace readiness assessment.

⁷ Students are required to be trained in emergency first aid, cardiopulmonary resuscitation, and the use of automated external defibrillators, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation.

⁸ Students shall successfully complete one virtual course, which may be a non-credit-bearing course, or may be a course required to earn this diploma that is offered online.

⁹ 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 and Advanced Diploma Requirements for Students Who Enter the 9th Grade for the First Time in 2016-17 and 2017-18

Standard Diploma Requirements for Graduation- 22 Credits

The requirements for a student to earn a diploma shall be those in effect when the student enters the 9th grade for the first time. The following applies to students who enter 9th grade in 2016-17 and 2017-18.

To graduate from high school, students shall meet the minimum requirements for the Standard Diploma as outlined below, including 22 standard credits, 6 of which must be verified credits. A **standard** credit is earned when a student passes a course. A verified credit is earned when a student passes a course and either the associated end-of-course SOL test or completes Board-approved performance assessments. In some cases, students may utilize substitute tests, certifications, or the appeal process to earn verified credits. State guidelines prescribe the number of verified credits required for graduation for students entering a Virginia public high school for the first time during the tenth grade or after. Students with disabilities may have the opportunity to use credit accommodations to earn a Standard Diploma. Students must be found eligible for these accommodations. Consult your school counselor for specific information.

Students receive credit toward graduation for high school courses taken and passed in middle school. These courses count toward credits in the required sequences as well as toward the total number of credits required for graduation and calculation of the grade point average (GPA). Middle school parents may request that grades for any high school credit-bearing course taken in the middle school be removed from the student's high school transcript, and therefore the student will not earn high school credit for the course. In addition, the student will not be eligible for a verified credit in any course which has been removed from the transcript. The request to remove a course from the transcript must be made in writing to the middle or high school the student will attend the following year, prior to the end of the first nine weeks of school. See current version of FCPS [Regulation 2408](https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/BGKJ7X4BCB1F/$file/R2408.3.pdf). ([https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/BGKJ7X4BCB1F/\\$file/R2408.3.pdf](https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/BGKJ7X4BCB1F/$file/R2408.3.pdf))

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Subject Area	Standard Credits	Verified Credits
English	4	2
Mathematics ¹	3	1
Laboratory Science ^{2, 6}	3	1
History and Social Sciences ^{3, 6}	3	1
Health and Physical Education	2	
World Language, Fine Arts or Career and Technical Ed ⁷	2	
Economics and Personal Finance	1	
Electives ⁴	4	
Student Selected Test ⁵		1
Career and Technical Education Credential ⁸		
First Aid/CPR/AED Training		
Virtual Course ¹⁰		
Total Credits	22	6

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 above the level of Algebra II. The Board of Education (Board) shall approve additional courses to satisfy this requirement.

² Courses completed to satisfy this requirement shall include course selections from at least two different science disciplines: earth sciences, biology, chemistry, or physics; or completion of the sequence of science courses required for the International Baccalaureate Diploma. The Board shall approve courses to satisfy this requirement. AP Computer Science A and IB Computer Science SL/HL can be used to meet a science graduation credit for standard or advanced diplomas; however, it cannot be counted towards the science discipline requirement.

³ Courses completed to satisfy this requirement shall include U.S. and Virginia History, U.S. and Virginia Government, and either World History/Geography I or World History/Geography II. AP World History satisfies the requirement for World History/Geography II. Additional IB courses may also satisfy this requirement.

⁴ Courses to satisfy this requirement shall include at least two sequential electives as required by the Standards of Quality.

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

⁶ 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 (i) the student selected verified credit and (ii) either a science or history and social science verified credit when the certification, license, or credential confers more than one verified credit. The examination or occupational competency assessment must be approved by the Board as an additional test to verify student achievement.

⁷ Pursuant to Section 22.1-253.13:4, Code of Virginia, credits earned for this requirement shall include one credit in fine or performing arts or career and technical education.

⁸ Students shall earn a career and technical education credential approved by the Board that could include, but not be limited to, the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia Workplace Readiness Assessment.

⁹ Students are required to be trained in emergency first aid, cardiopulmonary resuscitation, and the use of automated external defibrillators, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation.

¹⁰ Students shall successfully complete one virtual course, which may be a non-credit-bearing course or elective credit bearing course that is offered online.

Advanced Diploma Requirements for Graduation- 26 Credits

The requirements for a student to earn a diploma shall be those in effect when the student enters the 9th grade for the first time. The following applies to students who enter 9th grade in 2016-17 and 2017-18.

To graduate from high school with an Advanced Studies Diploma, students shall meet the minimum requirements as outlined below which include 26 credits, 9 of which must be verified credits. A **standard** credit is earned when a student passes a course. A verified credit is earned when a student passes a course and either the associated end-of-course SOL test or completes Board-approved performance assessments in some cases, students may utilize substitute tests or certifications to earn verified credits. State guidelines prescribe the number of verified credits required for graduation for students entering a Virginia public high school for the first time during tenth grade or after. Consult your school counselor for specific information. Students with an Individualized Education Program (IEP) disabilities may have the opportunity to use credit accommodations to earn an Advanced Studies Diploma. Students must be found eligible for these accommodations. Consult your school counselor for specific information.

Students receive credit toward graduation for high school courses taken and passed in middle school. These courses count toward credits in the required sequences as well as toward the total number of credits required for graduation and calculation of the grade point average (GPA). Middle school parents may request that grades for any high school credit-bearing course taken in the middle school be removed from the student's high school transcript, and therefore the student will not earn high school credit for the course. In addition, the student will not be eligible for a verified credit in any course which has been removed from the transcript. The request to remove a course from the transcript must be made in writing to the middle or high school the student will attend the following year prior to the end of the first nine weeks of school. See current version of FCPS [Regulation 2408](https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/BGKJ7X4BCB1F/$file/R2408.3.pdf). ([https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/BGKJ7X4BCB1F/\\$file/R2408.3.pdf](https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/BGKJ7X4BCB1F/$file/R2408.3.pdf))

Advanced Studies Diploma Course Requirements (8 VAC 20-131-50)		
Subject Area	Standard Credits	Verified Credits
English	4	2
Mathematics ¹	4	2
Laboratory Science ²	4	2
History and Social Sciences ³	4	2
World Language ⁴	3	
Health and Physical Education	2	
Fine Arts or Career and Technical Ed	1	
Economics and Personal Finance	1	
Electives	3	
Student Selected Test ⁵		1
First Aid/CPR/AED Training ⁶		
Virtual Course ⁷		
Total Credits	26	9

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 Board of Education (Board) shall approve courses to satisfy this requirement.

² 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. The Board shall approve courses to satisfy this requirement. AP/IB Computer Science A and IB Computer Science SL/HL can be used to meet a science graduation credit for standard or advanced diplomas; however, it cannot be counted towards the science discipline requirement.

³ Courses completed to satisfy this requirement shall include U.S. and Virginia History, U.S. and Virginia Government, World History/Geography I, and World History/Geography II. AP World History satisfies the requirement for World History/Geography II. Additional IB courses may also satisfy this requirement.

⁴ Courses completed to satisfy this requirement shall include three years of one language or two years of two languages.

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

⁶ Students are required to be trained in emergency first aid, cardiopulmonary resuscitation, and the use of automated external defibrillators, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation.

⁷ Students shall successfully complete one virtual course, which may be a non-credit-bearing course, or may be a course required to earn this diploma that is offered online.

Postsecondary Planning

Each high school in Fairfax County Public Schools (FCPS) provides a sequential postsecondary planning program that focuses on the acquisition of knowledge, skills, and self-understanding necessary to achieve postsecondary goals. As part of this planning, students develop an Academic and Career Plan (ACP). This plan provides opportunities for students to identify strengths and interests, explore college and career options, and develop postsecondary goals. Students are advised regarding opportunities for postsecondary education, paying for post-secondary education, and employment prior to high school graduation. For more information, visit [the FCPS Academic and Career Plan website \(https://www.fcps.edu/academics/graduation-requirements-and-course-planning/academic-career-plan\)](https://www.fcps.edu/academics/graduation-requirements-and-course-planning/academic-career-plan). To assist in the process, information and resources are provided through the school counseling program and are available online. Additionally, each high school has a staffed College and Career Center with current college and career resource materials. To support students in best preparing for postsecondary education and training opportunities, the [Postsecondary Opportunities for High School Students \(https://www.doe.virginia.gov/parents-students/for-students/postsecondary-opportunities-for-high-school-students\)](https://www.doe.virginia.gov/parents-students/for-students/postsecondary-opportunities-for-high-school-students) contains information for students on preparing, applying, and paying for post-secondary education as well as information on degrees and labor-market career projections.

In high school, students will explore, prepare for, and experience various academic and career opportunities as an important part of developing their own ACP. Participating in Service Learning and Work-Based Learning activities encourages growth of valuable, transferable skills that will contribute to lifelong learning and postsecondary success. These career-connected activities engage students in authentic opportunities for goal setting and continuous reflection on their progress.

State Diploma Seals

1. The **Governor's Seal** shall be awarded to students who complete the requirements for an Advanced Studies Diploma with an average grade of "B" or better and successfully complete college-level coursework that will earn the student at least nine transferrable college credits in Advanced Placement (AP), International Baccalaureate (IB), Cambridge, or dual enrollment courses.
2. Students who complete the requirements for a Standard or Advanced Studies Diploma with an average grade of "A" shall receive a **Board of Education Seal** on the diploma.
3. The **Board of Education's Career and Technical Education Seal** will be awarded to students who earn a Standard or Advanced Studies Diploma and complete a prescribed sequence of courses in a career and technical education concentration or specialization that they choose and maintain a "B" or better average in those courses, or pass an examination or an occupational competency assessment in a career and technical education concentration or specialization that confers certification or occupational competency credential from a recognized industry, trade or professional association, or acquire a professional license in that career and technical education field from the Commonwealth of Virginia. The Board shall approve all professional licenses and examinations used to satisfy these requirements.
4. The **Board of Education's Seal of Advanced Mathematics and Technology (available for students entering high school prior to 2018-19)** will be awarded to students who earn a Standard or Advanced Studies Diploma and (i) satisfy all of the mathematics requirements for the Advanced Studies Diploma (four units of credit including Algebra II; two verified units of credit) with a "B" average or better; and (ii) either (a) pass an examination in a career and technical education field that confers certification from a recognized industry, or trade or professional association; (b) acquire a professional license in a career and technical education field from the Commonwealth of Virginia; or (c) pass an examination approved

by the Board that confers college-level credit in a technology or computer science area. The Board shall approve all professional licenses and examinations used to satisfy these requirements.

5. The **Board of Education’s Seal for Excellence in Civics Education** will be awarded to students who earn a Standard or Advanced Studies Diploma and: (i) complete Virginia and United States History and Virginia and United States Government courses with a grade of “B” or higher; and, (ii) have good attendance and no disciplinary infractions as determined by local school board policies and, (iii) complete 50 hours of voluntary participation in community service or extracurricular activities. Activities that would satisfy the requirements of clause (iii) of this subdivision include: (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; (c) participating in JROTC; (d) participating in political campaigns or government internships, or Boys State, Girls State, or Model General Assembly; or (e) 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.
6. The **Seal of Biliteracy** will be awarded to students who earn a Board of Education-approved diploma and (i) pass all required End-of-Course Assessments in English reading and writing at the proficient or higher level; and (ii) be proficient at the intermediate-mid level or higher in one or more languages other than English, as demonstrated through an assessment from a list to be approved by the Superintendent of Public Instruction.
7. The **Board of Education’s Seal for Excellence in Science and the Environment (available for students entering 9th grade in 2018-19 or after)** shall be awarded to students who earn either a Standard diploma or Advanced Studies diploma and (i) complete at least three different first-level board-approved laboratory science courses and at least one rigorous advanced-level or postsecondary-level laboratory science course, each with a grade of "B" or higher; (ii) complete laboratory or field-science research and present that research in a formal, juried setting; and (iii) complete at least 50 hours of voluntary participation in community service or extracurricular activities that involve the application of science such as environmental monitoring, protection, management, or restoration.
8. The **Board of Education’s Seal for Science, Technology, Engineering, and Math (STEM)** shall be awarded to students who earn either a Standard Diploma or an Advanced Studies and satisfy all Math and Science requirements for the Advanced Studies Diploma with a “B” average or better in all course work, and: Successfully complete a 50 hour or more work-based learning opportunity in a STEM area, and:
 - Satisfy all requirements for a Career and Technical Education Concentration. A concentration is a coherent sequence of two or more state-approved courses as identified in the listing within the [CTE Program Area Guide \(https://www.cteresource.org/career-clusters/\)](https://www.cteresource.org/career-clusters/), 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.

FCPS Grading System

Letter Grade	100 Point Scale	4 Point Scale	Quality Point Assigned	Letter Grade	100 Point Scale	4 Point Scale	Quality Point Assigned	Letter Grade	100 Point Scale	4 Point Scale	Quality Point Assigned
A	(93-100)	=3.8-4.0	4.0	B-	(80-82)	=2.4-2.7	2.7	D+	(67-69)	=1.1-1.3	1.3
A-	(90-92)	=3.4-3.7	3.7	C+	(77-79)	=2.1-2.3	2.3	D	(64-66)	=0.8-1.0	1.0
B+	(87-89)	=3.1-3.3	3.3	C	(73-76)	=1.8-2.0	2.0	F	(50-63)	=0.0-0.7	0.0
B	(83-86)	=2.8-3.0	3.0	C-	(70-72)	=1.4-1.7	1.7				

Grade Point Average

Grade point average (GPA) is calculated on the basis of **all courses for which high school credit has been earned or attempted, including repeated courses previously passed**. All classes appearing on the high school transcript including high school classes taken in summer school, middle school, elementary school, or online are included when calculating GPA.

Advanced Placement (AP) courses, specified International Baccalaureate (IB) courses, courses taken in high school for dual enrollment (DE) credit with a postsecondary institution, and courses identified as advanced (AV) through the annual course review process receive an additional 1.0 added to the final grade upon successful completion of the course. Successful completion is

defined as completing the course with a passing grade. For example, a final grade of “A” in an AP, AV, IB, or DE course shall receive 5.0 quality points for purposes of calculating grade point average.

Honors (HN) courses in mathematics, science, English, social studies, designated Thomas Jefferson High School courses, and other honors courses approved through the annual course review process receive an additional 0.5 weight added to the final grade upon successful completion of the course. Successful completion is defined as completing the course with a passing grade. For example, a final grade of “A” in an honors class shall receive 4.5 quality points.

Courses dropped during the school year will not be counted in the grade point average (GPA) except when a final grade of “F” is received: (a) for courses dropped during the fourth grading period of a full-year course, or (b) for courses dropped through the second grading period of a semester course. A student's GPA is determined by dividing the total number of quality points earned by the number of courses included in the transcript. The grade point average is reported to three decimal places (thousandths). Fairfax County Public Schools does not rank its students.

Expunging High School Courses Taken in Middle School

In accordance with Virginia Board of Education regulations, FCPS [Regulation 2408](#) ([https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/BGKJ7X4BCB1F/\\$file/R2408.3.pdf](https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/BGKJ7X4BCB1F/$file/R2408.3.pdf)) permits parents of students who take a high school credit-bearing course in middle school to request that the grade be omitted from the student's high school transcript and the student not earn high school credit for the course. **Parents must make this request in writing no later than the end of the first nine weeks of the school year following completion of the course.** The form to make this request, along with the process for making the request, is available at: [Request to Expunge High School Courses Taken in Middle School](#) (<https://www.fcps.edu/sites/default/files/media/forms/is104.pdf>) or through your student’s school counselor. Parents are strongly advised to discuss this decision with their student’s school counselor and the impact of expunging a course on desired high school diploma type and standard and verified credit requirements.

Withdraw Policy

For the first grading period only, a student has five days after the date on which report cards are sent home in which to drop a course without having a grade recorded. After this period of time and before the fourth quarter, courses dropped are recorded with a WP (withdrawn passing) or WF (withdrawn failing). Courses dropped after the start of the fourth quarter will be recorded as a WP or “F” (failure). Courses dropped are not counted in the grade point average except when an F is received for the course. Middle schools do not calculate grade-point averages; however, if a high school credit course is taken by a middle school student, courses dropped are not counted in the high school grade-point average except when an “F” is received for the course, as outlined above. Unless the principal approves an exception, a student may not withdraw during the final quarter of a course if he or she is passing the course.

If a student drops a course during the:

Quarter	Action
1st quarter	No penalty—nothing is recorded.
2nd quarter	WP (withdrawn passing) or WF (withdrawn failing) is recorded. Exception: For semester courses a WP or F for failure is recorded.
3rd quarter	WP or WF is recorded.
4th quarter	WP or F for failure is recorded.

Pass-Fail

The Fairfax County School Board [Regulation 2436](https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/CFPEW645212/$file/R2436.pdf) ([https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/CFPEW645212/\\$file/R2436.pdf](https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/CFPEW645212/$file/R2436.pdf)) permits students to take certain courses on a pass-fail basis.

- With parental/guardian approval, middle and high school students are given the option of taking one high school elective credit per school year on a pass-fail basis. For high school students, this may be applied to required health and physical education credits, world language credits, economics and personal finance requirements, work-based learning internship credits, and to credits other than those required for English, social studies, mathematics, and laboratory science and specialized courses such as Principles of Engineering Technology and Senior Technology Research taught at Thomas Jefferson High School for Science and Technology. For middle school students, this may be applied only to high school world language credits.
- Self-directed courses, (e.g., Economics and Personal Finance Self-Paced) and the Independent Study elective course are automatically graded on a pass-fail basis and do not count towards the one optional course students may elect to take pass-fail during a school year.
- A double or triple-period class taken for two or three credits in the technical fields may be taken on a pass-fail basis as the one pass-fail course per year.
- No student may take more than two single semester electives or one full-year elective per school year on the pass-fail system except as indicated above.
- Any student wishing to take a course as pass-fail shall indicate this by completing a [Request for Pass-Fail Status form](https://www.fcps.edu/sites/default/files/media/forms/se119.pdf) (<https://www.fcps.edu/sites/default/files/media/forms/se119.pdf>) requiring parent and/or guardian approval and returning it to designated school personnel on or before the 22nd school day or by the first half of the first grading period subsequent to entering the course. Students in schools using a semester block schedule must return the parent approval form to school personnel on or before the 11th school day or by the first half of the first grading period subsequent to entering the course. This decision may not be reversed.
- If a student drops a class being taken on a pass-fail basis and transfers to a new class, the student shall have ten school days to make a decision as to whether the new class will be taken on a pass-fail basis. Students in schools using a semester block schedule shall have five school days to make a decision as to whether the new class will be taken on a pass-fail basis, provided it is an elective course. This decision may not be reversed.
- Grades are determined as follows:
 - "P" for an A, A-, B, B-, C, C-, D+ or D which will receive credit but will not count in grade-point average.
 - "F" for an F which will receive no credit but will be counted in grade-point average.

Audit

In special circumstances, students may be allowed to attend one course without receiving credit for it. The [Request for Audit Status](https://www.fcps.edu/sites/default/files/media/forms/is680.pdf) (<https://www.fcps.edu/sites/default/files/media/forms/is680.pdf>) form must be completed, submitted, and approved prior to the beginning of the course. Students may audit a course one year and then take it for credit the next year. Students who audit a course must meet all attendance requirements and strive toward completion of Program of Studies (POS) standards, benchmarks, and indicators. The decision may not be reversed with the exception of English language learners placed in a content class who may be changed from audit to credit status at the request of the content teacher and ESOL department chair if the student demonstrates mastery of the course content.

Promotion Policy

Middle School

To qualify for promotion as outlined in [Regulation 2410](https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/B6PK8S50744B/$file/R2410.pdf) ([https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/B6PK8S50744B/\\$file/R2410.pdf](https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/B6PK8S50744B/$file/R2410.pdf)), seventh and eighth grade middle school students must demonstrate knowledge and competency based upon identified standards of achievement in the four core areas of language arts, mathematics, science, and social studies. To guarantee promotion, students must demonstrate proficiency in the foundational knowledge and skills in each of the four core subject areas and earn a passing final grade based on grade level expectations.

Students normally shall progress annually from level to level. Exceptions may be made when, in the judgment of professional staff members, such exceptions are in the best educational interests of the students involved. Retention of students shall be affected only after prior notification and explanation to the student's parents and/or guardians; however, the decision shall rest with the base school principal.

High School

The minimum requirements for placement in high school grades are as follows:

To be placed in grade:	The student must:
9	Be promoted from 8th grade
10	Be promoted from 9th grade and have earned at least 5 standard units of credit
11	Have earned at least 10 standard units of credit.
12	Have a planned program providing sufficient credits to ensure graduation the following June or August.

World Languages Credit Exam

The World Languages Credit Exam is given each fall to students who wish to demonstrate written proficiency in one of several languages: American Sign Language, Amharic, Arabic, Bengali/Bangla, Chinese/Mandarin, Farsi/Persian, French, German, Greek, Hindi, Hebrew, Italian, Japanese, Korean, Nepali, Pashto, Portuguese, Punjabi, Russian, Sanskrit/Sanskritam, Somali, Spanish, Tagalog/Pilipino, Tamil, Telugu, Tigrinya, Turkish, Twi, Urdu, or Vietnamese. Students who are successful on the exam may earn up to three passing world languages credits which may be used to fulfill the world languages requirements and/or electives of the Advanced Studies or Standard Diplomas. Exam credits may also fulfill the Virginia Department of Education’s Seal of Biliteracy.

In addition, middle school students in grades 7-8 enrolled in ELD courses (5710-5730) may receive elective credits toward high school graduation requirements for a Standard or Advanced Studies Diploma, up to two world languages credits toward high school graduation requirements towards the Advanced Studies Diploma, or a combination of these options. High school students enrolled in ELD 5720 and 5730 courses may be awarded elective credits toward high school graduation requirements for a Standard or Advanced Studies Diploma, up to four world languages credits toward high school graduation requirements for fulfilling the world languages requirements towards the Advanced Studies Diploma, or a combination of these options.

For more information on the exam, go to: [World Languages Credit Exam \(https://www.fcps.edu/academics/high-school-academics-9-12/world-languages/credit-exam-world-languages\)](https://www.fcps.edu/academics/high-school-academics-9-12/world-languages/credit-exam-world-languages) or contact the World Languages Team at 571-423-4602.

Courses Taken Outside of FCPS

Currently enrolled FCPS students who wish to take a course outside of FCPS and transfer back the credit must follow the guidelines provided in the current version of FCPS [Regulation 2408 \(https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/BGKJ7X4BCB1F/\\$file/R2408.3.pdf\)](https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/BGKJ7X4BCB1F/$file/R2408.3.pdf). Please note that there are limited options for students to pursue credit outside of FCPS during the August–June school year, with more options available in the summer. Students must have written approval from their school prior to enrolling in the course. The course must meet the requirements outlined in Regulation 2408 and Virginia Board of Education regulations. For additional information about pursuing coursework outside of FCPS for credit, please contact your school counselor.

Earning College Credits in High School

FCPS provides a college readiness curriculum to students through standard and honors level courses. In addition, students may take advantage of opportunities to earn college credit while enrolled in high school through Advanced Placement (AP), International Baccalaureate (IB), Concurrent Enrollment, and Dual Enrollment (DE) Courses.

College credit for AP and IB courses may be provided by colleges and universities upon successful completion of the associated AP or IB examination.

Concurrent Enrollment courses are taken on a college or university campus for which students can receive both college and high school credit for the course(s). The college course(s) must match a course taught in FCPS and meet the requisite number of seat hours. Individual colleges and universities set the cost for their courses and tuition is paid directly to the college or university. For more information on Concurrent Enrollment and courses at area universities, please visit: [Concurrent Enrollment \(https://www.fcps.edu/academics/graduation-requirements-and-course-planning/college-credit-high-school/concurrent\)](https://www.fcps.edu/academics/graduation-requirements-and-course-planning/college-credit-high-school/concurrent).

Dual Enrollment

Dual Enrollment courses are courses taught at the high school by an FCPS teacher that offer high school and college credit through agreements with a college or university. The number of college credits the student will earn through a dual enrollment course is determined by the college or university. Students enrolled in a dual enrollment course may pay college tuition; however, because FCPS provides the instructor as well as the facility, the tuition may be significantly discounted from what a student would pay if they took the course at the college or university, or may be provided at no cost. Students who wish to take a dual enrollment course must meet criteria set by the college or university for admission into the course. Students enrolling in a dual enrollment course will work directly with their high school to register for the course. With the exception of highly specialized Career and Technical Education (CTE) courses offered only at high school academy sites, individual high schools determine if they will offer dual enrollment courses based on teacher endorsement requirements, existing course offerings, and student interest. For more information on dual enrollment opportunities and the opportunity to earn a General Education Certificate, speak with your school counselor or visit: [Earning College Credit While Enrolled in High School](https://www.fcps.edu/academics/graduation-requirements-and-course-planning/college-credit-high-school) (<https://www.fcps.edu/academics/graduation-requirements-and-course-planning/college-credit-high-school>).

Students with disabilities with an IEP or 504 plan who are enrolling in a dual enrollment course through Northern Virginia Community College (NOVA) will need to apply to NOVA Disability Support Services for consideration for accommodations at [Accommodations and Accessibility Services](https://www.nvcc.edu/accommodations/index.html) (<https://www.nvcc.edu/accommodations/index.html>).

Service Learning

Connecting classrooms with the community provides a sense of civic responsibility by encouraging students to assess their impact on the community and their roles as ethical and global citizens. Service Learning promotes career exploration through authentic, career-connected experiences. Students and teachers collaborate with local leaders to address community needs, resulting in service to the community and the development of social, emotional, and academic skills. Opportunities may involve direct service, indirect service, or advocacy.

Work-Based Learning

Work-based learning is a coordinated educational strategy that provides students with a continuum of career-connected experiences to support their postsecondary goals and prepare them for education and employment beyond high school. Students act both independently and collaboratively in engaging learning opportunities that connect classroom learning to the world of work through partnership with local businesses or organizations. Work-based learning experiences reinforce the importance of classroom learning, offer the opportunity to explore potential career pathways, and practice and demonstrate workplace readiness skills that align to FCPS Portrait of a Graduate. Experiences such as service learning, externships, internships, career mentoring, clinical experiences, entrepreneurship, school-based enterprise, and youth registered apprenticeships are high-quality work-based learning experiences according to the Virginia Department of Education (VDOE) as long as they are related to students' career goals and interests, integrated with classroom instruction, and performed in partnership with businesses or organizations. Students entering the 9th grade in 2018-2019 and beyond and obtaining the Standard Diploma may use a High-Quality Work-Based Learning (HQWBL) experience to meet the Course Academic Type graduation requirement.

Advanced Academic Programs

Advanced Academic Programs (AAP) responds to the requirement from the Virginia Board of Education that each local school division plan and implement an instructional program for gifted and talented students at all levels K-12. Courses designated as Honors, International Baccalaureate (IB), and Advanced Placement (AP) fulfill this requirement.

Advanced Academic Programs at the high school level are comprised of Honors courses in 9th through 12th grades, and the Advanced Placement (AP) program in 10th, 11th, and 12th grades or the IB Middle Years Program (IBMYP) in 9th and 10th grades, and the IB Diploma Program (IBDP) in 11th and 12th grades. AP/IB and honors courses are open to all students committed to rigorous academic work. Student transfer applications may be submitted for an AP or IB program if the base school does not offer the desired program of study. For more information on the program, please visit: [Advanced Academic Programs](https://www.fcps.edu/academics/academic-overview/advanced-academic-programs) (<https://www.fcps.edu/academics/academic-overview/advanced-academic-programs>).

AP and IB courses are advanced-level courses with external exams. Students who take AP and IB courses are encouraged to complete the corresponding examinations, and FCPS centrally funds the first six exams in a student's academic career. There is a 1.0 grade boost for taking an AP/IB course and the grade boost is not linked to taking the corresponding AP/IB exam.

Differentiated curricula and teaching strategies which stress critical thinking skills, creativity, problem-solving, and relationship building are integrated into the content of all advanced academic course offerings. The four-year high school sequence of courses

in each of the academic disciplines provides a continuous and balanced advanced academic program. There is no screening process to access Honors, AP, or IB courses; however, prerequisites and/or co-requisites must be met. For more information on course sequencing, go to: High School Course Sequencing (<https://www.fcps.edu/academics/graduation-requirements-and-course-planning/high-school-course-sequencing>).

Advanced Placement

Centreville, Chantilly, Fairfax, Falls Church, Hayfield, Herndon, Jefferson, Lake Braddock, Langley, Madison, McLean, Oakton, South County, West Potomac, West Springfield, Westfield, and Woodson High Schools offer the Advanced Placement (AP) program. Individual AP courses are also offered at other high schools. All students enrolled in an AP course are strongly encouraged to complete the end-of-course AP exam. Students may receive college credit and/or placement based upon their exam scores. The AP program is offered in English, social studies, mathematics, science, world languages, fine arts, and Capstone (interdisciplinary). AP courses are offered as open enrollment to all students committed to rigorous academic work. Students taking at least three AP exams, with at least a score of 3 on each, are recognized by the College Board as AP Scholars, and students may earn the AP Capstone Diploma or the AP Seminar and Research Certificate with qualifying scores. Further information about the AP program may be obtained by contacting the school counselor or AP coordinator at the participating school.

International Baccalaureate Middle Years Program

In partnership with feeder middle schools, Annandale, Edison, Justice, Lewis, Mount Vernon, Robinson, and South Lakes High Schools implement the IB Middle Years Program (IBMYP) in 9th and 10th grades. Students may choose to work toward the FCPS MYP certificate at authorized high schools, which requires enrollment in at least two consecutive years of world language, the successful completion of a personal project at the end of 10th grade, completion of service learning requirements and reflections, and success on the MYP 10th grade assessments.

International Baccalaureate Diploma Program

Annandale, Edison, Justice, Lewis, Marshall, Mount Vernon, Robinson, and South Lakes High Schools offer the International Baccalaureate Diploma Program (IBDP). Students may enroll as a course student or an IB Diploma candidate. As a course student, students may choose one or more IBDP courses in areas of academic strength and interest. IB courses are offered in English, social studies, mathematics, science, world languages, and fine arts, and they are offered as open enrollment to all students committed to rigorous academic work.

IB Diploma candidates must select at least one course from each of six IB subject groups, including English, world languages, mathematics, science, social studies, and arts or an elective. Students take at least three and not more than four of these subjects at higher level (HL) and the others at standard level (SL). All students enrolled in an IB course are strongly encouraged to complete the end-of-course IB exams. In addition, IB Diploma candidates must complete a Creativity Activity Service (CAS) project, take the Theory of Knowledge (TOK) course and complete the required assessments, and write a 4000-word extended essay on a topic of their choice. IB course students who take one or more IB courses and the associated exam(s) receive recognition for each IB exam with a score of 4 or better. IB course and IB Diploma students may receive college credit and/or placement based upon their exam scores.

International Baccalaureate Career-related Program

Mount Vernon and South Lakes High Schools offer the IB Career-related Program (IBCP). The IBCP is offered as open enrollment to all students committed to rigorous academic work. To earn the IB Career-related Program Certificate, students must complete a two-year CTE course sequence, take two IBDP courses and the associated exams, and demonstrate world language development. IBCP candidates must also complete service learning, take the Personal and Professional Skills course, and complete a reflective project related to their CTE field of study.

Further information about the IBCP may be obtained by contacting the school counselor or IB coordinator at the participating school.

Thomas Jefferson High School for Science and Technology

The Thomas Jefferson High School for Science and Technology (TJHSST) is a unique Fairfax County public school offering a comprehensive college preparatory program emphasizing the sciences, mathematics, and technology. As the Governor's School for Science and Technology in Northern Virginia, the school serves students selected in a competitive process who intend to pursue college preparation in the sciences, engineering, or related fields. Students may obtain information about application procedures and deadlines from the School Counseling Office of their local schools or by calling the TJHSST Office of Admissions at 571-423-3770 or: [TJHSST Admissions](https://www.fcps.edu/registration/thomas-jefferson-admissions) (<https://www.fcps.edu/registration/thomas-jefferson-admissions>).

Career and Technical Education

Course descriptions for Career and Technical Education (CTE) courses can be found under Business and Information Technology, Family and Consumer Sciences, Health and Medical Sciences, Marketing, Technology and Engineering Education, and Trade and Industrial sections of the *Standard and Optional Course Offerings* guides. School counselors can provide further information on specialized courses available at the following locations: Chantilly, Edison, Fairfax, Falls Church, Marshall, and West Potomac High School Academies, as well as at Fair Oaks Shopping Center (Chantilly Academy), Spring Village Residential Construction Site (Edison Academy), Fairfax County Fire and Rescue (Chantilly Academy), and the Plum Center (Falls Church Academy). Please visit the CTE website at [Career and Technical Education \(https://www.fcps.edu/academics/academic-overview/career-and-technical-education-cte\)](https://www.fcps.edu/academics/academic-overview/career-and-technical-education-cte).

FCPS offers students opportunities at four Governor’s Academies. Chantilly and Marshall Governor’s STEM Academies specialize in engineering and information technology. Falls Church and West Potomac Governor’s Health Sciences Academies focus on five pathways in the area of health care.

Career and Technical Education (CTE) is at the forefront of preparing students to be “college- and career-ready” by providing programs through which students acquire core academic skills and knowledge, learn relevant technical applications, and prepare for postsecondary studies and employment opportunities following high school graduation. Career experiences and connections to business through CTE courses allow students to explore multiple career pathways. For more information, please visit the [FCPS website \(https://www.fcps.edu/\)](https://www.fcps.edu/) and search for CTE.

FCPS provides career pathway opportunities that include study in the areas of:

- Business Education and Information Technology
- Family and Consumer Science
- Health and Medical
- JROTC
- Marketing
- Technology and Engineering Education
- Trade and Industry

These courses may lead to industry recognized certifications or state licensure. Students taking certain CTE courses may earn college credit through dual enrollment and articulation agreements with postsecondary institutions. FCPS has established articulation agreements with a variety of postsecondary organizations that allow students to take certain career and technical education classes in high school and receive college placement credit. In addition, FCPS has dual enrollment agreements with Northern Virginia Community College (NOVA), whereby students can earn college credits for select career and technical education classes. A full listing of Articulation and Dual Enrollment Agreements is available at [Dual Enrollment \(https://www.fcps.edu/academics/graduation-requirements-and-course-planning/college-credit-high-school/dual-enrollment\)](https://www.fcps.edu/academics/graduation-requirements-and-course-planning/college-credit-high-school/dual-enrollment).

Annual Notice of Non-Discrimination Policy Statement

Fairfax County Public Schools (FCPS) is committed to a learning and working environment free from all forms of discrimination. No person shall on the basis of, race, sex, color, age, religion, sexual orientation, gender identity, national origin, genetic information, pregnancy status, childbirth or related medical conditions, marital status, veteran status, and disability be denied the benefits of, or be subjected to discrimination under any FCPS sponsored educational program or activity. Retaliation against any person who reports or participates as a witness in the investigation of a discrimination and/or harassment complaint is strictly prohibited.

Annual Notice of Postsecondary Education and Employment Data

This is an annual notice of the availability of the postsecondary education and employment data published by the State Council of Higher Education (SCHEV)

- [SCHEV Map of Virginia Colleges & Universities](#)

2023-2024 High School CTE Course Offerings

Business and Information Technology

Accounting
Advanced Programming
Business Law
Business Management
Cybersecurity Fundamentals
Design, Multimedia, and Web Tech
Digital Applications
Game Design
IB Business Management
IB Digital Society
Information Systems
Principles of Business
Web Page Development

Family and Consumer Sciences

Child Development and Parenting
Culinary Arts
Early Childhood Careers
Food and Hospitality Management
Hospitality
Introduction to Interior Design
Life Planning
Nutrition and Wellness

General

Apprenticeship
Career Mentor
CS Programming
IB Personal and Professional Skills
Internship
Air Force JROTC
Army JROTC
Marine JROTC
Naval JROTC
Teachers for Tomorrow

Health and Medical Sciences

See Academy Course Offerings

Marketing

Entrepreneurship
Fashion Marketing
Global Marketing
Introduction to Marketing
Marketing
Marketing Management
Social Media Marketing
Sports and Entertainment Marketing
Strategic Marketing

Technology and Engineering Education

Advanced CAD
Aerospace Science
Architectural Drawing
Electronics
Engineering Drawing
IB Design Technology
Integrated Engineering
Remote Piloted Vehicle
STEM Design
STEM Engineering
STEM Pre-Engineering
STEM Robotics

Trade and Industrial

Aircraft Pilot Training
Automotive Technology
Cosmetology
Criminal Justice
Also See Academy Course Offerings

2023-2024 Middle School CTE Course Offerings

Business and Information Technology

Coding and Innovative Technologies
Computer Exploration
Computer Solutions
STEM Solutions

Family and Consumer Sciences

Family and Consumer Sciences 6, 1, 2

General

Career Investigations

Health and Medical Sciences

Healthcare Careers

Technology and Engineering Education

Introduction to Technology
Engineering 1 – Design and Modeling
Engineering 2 – Simulation and Fabrication
Engineering 3 – Advanced Drawing and Simulation

High School Academies and Other Specialized CTE Courses

Advanced technical and specialized elective courses are available at High School Academies and other community-based locations. Students enrolling in these courses will be provided with opportunities to participate in shadowing, mentoring, and/or internships with local businesses to further prepare them for college and careers. Transportation may be provided. Refer to course descriptions in the Standard Course Offerings for specific information on these specialized courses or visit [Academy Website](https://www.fcps.edu/academics/high-school-academics-9-12/career-and-technical-education-cte/academies-and-specialized). (<https://www.fcps.edu/academics/high-school-academics-9-12/career-and-technical-education-cte/academies-and-specialized>)

2023-2024 High School Academy Course Offerings

CHANTILLY ACADEMY (<https://chantillyacademy.fcps.edu/>)

A Governor's STEM Academy

Air Force JROTC
Apprenticeship
Automotive Collision Service
Automotive Technology
Carpentry
Cloud Computing
Criminal Justice
Culinary Arts
Cyber: Cisco
Cyber: Exploring IT

Cyber: Network Administration
Cyber: Oracle
Cyber: Security Capstone AV
Cyber: Systems Tech
Dental Careers
Engineering Math
Engineering Systems
Exploring Health Sciences
Veterinary Science
Exploring the Lang of Medicine

Internship
Introduction to Nursing
Korean
Medical Assistant
Pharmacy Technician
Physical Therapy/Occupational Therapy
Cosmetology
Robotic Systems
Teachers for Tomorrow

[EDISON ACADEMY \(https://edisonacademy.fcps.edu/\)](https://edisonacademy.fcps.edu/)

Apprenticeship	Cyber: Cisco	Electrical Construction & Eng
Automotive Collision Service	Cyber: Exploring IT	Heating, Ventilation, AC & Ref
Automotive Technology	Cyber: Network Administration	Internship
Chinese	Cyber: Oracle	Teachers for Tomorrow
Cloud Computing	Cyber: Security Capstone AV	Veterinary Science
Cosmetology	Cyber: Systems Tech	
Criminal Justice	Culinary Arts	

[FAIRFAX ACADEMY \(https://fairfaxacademy.fcps.edu/\)](https://fairfaxacademy.fcps.edu/)

Acting Methods	Dance	Musical Theatre Fundamentals
Advanced Music Theatre Wkshp	Fashion Careers	Pre Professional Music Theatre
Advance Theatre Topics	Game Design and Development	Professional Photography Studio
American Sign Language	Hip Hop Dance	Social Media Marketing
Arabic	Korean	TV Media Production
Broadway Dance	Music and Computer Technology	
Chinese	Music Theatre Wkshp	

[FALLS CHURCH ACADEMY \(https://fallschurchacademy.fcps.edu/\)](https://fallschurchacademy.fcps.edu/)

A Governor's Health Sciences Academy

American Sign Language	Emergency Medical Technician	Medical Assistant
Biotechnology Foundations	Exploring Health Sciences	Medical Billing and Coding
Criminal Justice	Exploring the Lang of Medicine	Pharmacy Technician
Dental Careers	Health Informatics	Vietnamese

[MARSHALL ACADEMY \(https://marshallacademy.fcps.edu/\)](https://marshallacademy.fcps.edu/)

A Governor's STEM Academy

Apprenticeship	Cyber: Cisco	Culinary Arts
Arabic	Cyber: Cloud Computing	Engineering Systems
Automotive Technology	Cyber: Exploring IT	Entrepreneurship
Chinese	Cyber: Network Administration	Internship
Cosmetology	Cyber: Security Capstone AV	Robotic Systems
Criminal Justice	Cyber: Systems Tech	

[WEST POTOMAC ACADEMY \(https://westpotomacacademy.fcps.edu/\)](https://westpotomacacademy.fcps.edu/)

A Governor's Health Sciences Academy

911 Dispatch	Emergency Medical Technician	Pharmacy Technician
Army JROTC	Exploring Health Sciences	Physical Thrpy/Occup Thrpy
Biotechnology Foundations	Exploring the Lang of Medicine	Social Media Marketing
Broadway Dance	Hip Hop Dance	TV Media Production
Criminal Justice	Internship	Welding
Dance	Introduction to Nursing	
Dental Careers	Music and Computer Technology	

OTHER SPECIALIZED CTE PROGRAMS

**Classroom on the Mall
at Fair Oaks Mall
Chantilly Academy**

Fashion Marketing 2
Marketing Management

**Fairfax County Fire and
Rescue Academy
in Fairfax, Virginia
Chantilly Academy**

Firefighting

**Fairfax County School of Practical
Nursing
Plum Center for Lifelong Learning
Falls Church Academy**

Introduction to Nursing
Patient Care Technician
Practical Nursing

**Spring Village Residential
Construction Site
in Springfield, Virginia
Edison Academy**

Construction Technologies

Student Fees

Courses that require a student fee for consumable materials have been designated in this catalog. In addition, FCPS covers the cost of up to six AP or IB exams during the time a student is in FCPS. Fees are required for exams taken beyond these six. The schedule of division-wide student fees to be charged for any elective course can be found in [Notice 5922](https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/CUTSQR73C019/$file/N5922%202023-24.pdf) ([https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/CUTSQR73C019/\\$file/N5922%202023-24.pdf](https://go.boarddocs.com/vsba/fairfax/Board.nsf/files/CUTSQR73C019/$file/N5922%202023-24.pdf)). Students eligible for the federal Free and Reduced-Price meals program may have course and test fees reduced or waived. For more information, see your school counselor.

Full Day Schedule

Students enrolled in FCPS are expected to maintain a full-day schedule. Students with personal, family, or economic needs may begin the process to request a waiver of the full day schedule requirements by speaking with 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. For additional information about full day schedule requirements, visit: [Regulation 2412](https://www.boarddocs.com/vsba/fairfax/Board.nsf/files/AYBPAP63A83D/$file/R2412.pdf) ([https://www.boarddocs.com/vsba/fairfax/Board.nsf/files/AYBPAP63A83D/\\$file/R2412.pdf](https://www.boarddocs.com/vsba/fairfax/Board.nsf/files/AYBPAP63A83D/$file/R2412.pdf)).

Online Courses

High school students registered in any Fairfax County Public School or alternative high school are eligible to apply to take up to two credits through the FCPS Online Campus for scheduling conflicts or personal reasons, including health. Transportation arrangements for a student on this modified schedule are the responsibility of the family. Tuition will be charged when a student is already scheduled to receive seven credits during the academic year or when a student enrolls in an FCPS online summer course. Students who wish to pursue this option should indicate their intent at the time of course registration and plan closely with their school counselor. Students must meet all regular eligibility requirements to enroll in an FCPS online course. FCPS Online Campus is a program designed to provide students with an online option for earning credits toward high school graduation. This program supports the Governor’s “Early College Scholars” program by providing advanced courses to students. For more information go to: [Online Campus](https://www.fcps.edu/academics/academic-overview/online-campus) (<https://www.fcps.edu/academics/academic-overview/online-campus>).

The following courses are currently available online:

Computer Science

Advanced Programming HN
Advanced Programming DE
CS: AI Programming AV
CS Programming
Quantum Information

Career and Technical Education

Business and Information Technology

Accounting
Advanced Accounting
Advanced Information Systems
Advanced Programming HN
Advanced Programming DE
CS Programming

Health and Medical Sciences

Exploring the Language of Medicine
Exploring the Language of Medicine DE
Health Informatics

Technology and Engineering Education

Introduction to Technical Drawing
Engineering Drawing
Architectural Drawing
Advanced CAD

English

Creative Writing 1
Creative Writing 2
Creative Writing 3
Creative Writing 4
English 9
English 9 HN
English 10
English 10 HN
English 11
English 11 HN
AP English Language
English 11 Composition DE
English 12
English 12 HN
AP English Literature
English 12 Composition DE
English 12 Literature DE
Film Studies

General

CS Programming
Economics & Personal Finance
Economics & Personal Finance HN
IB Theory of Knowledge
Teachers for Tomorrow 2

Health and Physical Education

Physical Education 9
Physical Education 10
Fitness Instructor

Mathematics

Algebra 1
Algebra 1 HN
Geometry
Geometry HN
Algebra 2
Algebra 2 HN
Precalculus w/Trig
Precalculus w/Trig DE
Precalculus w/Trig HN
AP Precalculus BC
AP Calculus AB
AP Calculus BC
Calculus 1 & 2 DE
AP Statistics
CS: AI Programming AV

Science

Biology 1
Biology 1 HN
Chemistry 1
Chemistry 1 HN
Physics 1
Geosystems
Oceanography
Quantum Information

Social Studies

World History & Geography 1
World History & Geography 1 HN
World History & Geography 2
World History & Geography 2 HN
VA/U.S. History
VA/U.S. History HN
AP US History
VA/U.S. Government
VA/U.S. Government HN
VA/U.S. Government DE
AP US Government
AP Macroeconomics /
AP Microeconomics
Psychology
AP Psychology
African American History
African American History DE

World Languages

American Sign Language 1
American Sign Language 2
American Sign Language 3
American Sign Language 4
Arabic 1
Arabic 2
Arabic 3
Arabic 4
Chinese 1
Chinese 2
Chinese 3
Chinese 4
Korean 1
Korean 2
Korean 3
Korean 4
Spanish 1
Spanish 2
Spanish 3
AP Spanish Language
AP Spanish Literature

Justice High School Course Descriptions SY2024-2025

Courses listed are offered at the Base School only

COMPUTER SCIENCE

CS Foundations

(6642CS)

Grade: 9, 10, 11, 12

Credit: one

Computer Science Foundations standards is a one-year introductory survey course that emphasizes the principles underlying computer science, including computing systems, networks and the internet, cybersecurity, data analysis, algorithms and programming, and impacts of computing. Students develop ideas and practices of computational thinking and problem solving to consider how computing impacts the world. Students use programmable computing tools to facilitate design, analysis, and implementation of computer programs. This course provides a transition from block-based programming to a text-based programming language and familiarizes the student with developing and executing computer programs. Through this course, students are able to join Future Business Leaders of America (FBLA), the co-curricular student organization. FBLA offers opportunities in leadership, community, and competitive events.

This course is not for students who have previously taken Coding & Innovations in Middle School and/or have gone to Coding Camp or Coding Classes.

CS Programming

(6640CS)

Grade: 9, 10, 11, 12

Credit: one

CS Programming is a one-year course in a text-based language (Python). Students write programs of increasing complexity to solve real-world problems of personal interest and professional relevance. Students explore a variety of connections to career fields and prepare for future studies in computer science. The standards build on the concepts of computer science developed in prior grade levels. Prior exposure to text-based coding is recommended, but no prerequisites are required. Through this course, students are able to join Future Business Leaders of America (FBLA), the co-curricular student organization. FBLA offers opportunities in leadership, community, and competitive events.

Recommended for students who have previously taken Coding & Innovations in Middle School, attended Coding Camp, and/or have taken Coding Classes.

CS Programming – Online Campus

Online Campus course enrollment must be approved by the Online Campus.

(664099)

Grade: 9, 10, 11, 12

Credit: one

CS Programming is a one-year course in a text-based language (Python). Students write programs of increasing complexity to solve real-world problems of personal interest and professional relevance. Students explore a variety of connections to career

fields and prepare for future studies in computer science. The standards build on the concepts of computer science developed in prior grade levels. Prior exposure to text-based coding is recommended, but no prerequisites are required. Through this course, students are able to join Future Business Leaders of America (FBLA), the co-curricular student organization. FBLA offers opportunities in leadership, community, and competitive events.

Advanced Programming HN

(664100)

Grade: 10, 11, 12

Credit: one / weighted +0.5

Prerequisite: CS Programming

Building on a foundation of programming skills, students will use object-oriented programming to develop applications for Windows, database, multimedia, games, mobile, and/or Web environments. Students learn how to use popular game-development software to create engaging, interactive games in a variety of styles. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Adv Programming HN – Online Campus

Online Campus course enrollment must be approved by the Online Campus.

(664199)

Grade: 10, 11, 12

Credit: one / weighted +0.5

Prerequisite: CS Programming

Building on a foundation of programming skills, students will use object-oriented programming to develop applications for Windows, database, multimedia, games, mobile, and/or Web environments. Students learn how to use popular game-development software to create engaging, interactive games in a variety of styles. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Adv Programming DE – Online Campus

Online Campus course enrollment must be approved by the Online Campus.

(6641D9)

Grade: 10, 11, 12

Credit: one / weighted +1.0

Prerequisite: CS Programming

Building on a foundation of programming skills, students will use object-oriented programming to develop applications for Windows, database, multimedia, games, mobile, and/or Web

environments. Students learn how to use popular game-development software to create engaging, interactive games in a variety of styles. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit

www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment

IB Computer Science SL

(318508)

Grade: 11, 12

Credit: one / weighted +1.0

Prerequisite: Advanced Programming

The content of this course includes software development, computer systems, system design, social significance, number systems and Boolean Logic, advanced data structures and algorithms, objects and their use in problem solutions, the system life cycle, and file organization. Students will complete an in-depth project that demonstrates mastery of all required Standard Level aspects.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Computer Science HL 2

(318509)

Grade: 12

Credit: one / weighted +1.0

Prerequisite: IB Computer Science SL

This is the second year of a two-year course sequence. This course requires applications of concepts taught in IB Computer Science SL. The content of this course includes computer mathematics and logic, advanced data structures and algorithms, further system fundamentals, system life cycle, and file organization. The understanding of a case study will be included. Students will complete an in-depth project that demonstrates mastery of all Higher Level required aspects.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

Cybersecurity Fund

(630200)

Grade: 9, 10, 11, 12

Credit: one

Cybersecurity affects every individual, organization, and nation. This course focuses on the evolving and all-pervasive technological environment with an emphasis on securing personal, organizational, and national information. 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. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Game Design & Dev – Fairfax Academy
Academy course enrollment must be approved by the appropriate Academy.

(840026) Grade: 10, 11, 12 Credit: one
Prerequisite: CS Programming, Advanced Programming, or equivalent

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

Adv Game Design & Dev – Fairfax Acad.
Academy course enrollment must be approved by the appropriate Academy. - School Site Fairfax Academy

(840126) Grade: 11, 12 Credit: one
Prerequisite: Game Design & Dev

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 work collaboratively to refine their game design skills as they apply graphic design, animation, audio and writing skills to create innovative games for education and entertainment. Students will learn about career opportunities in game design and development and investigate the training and certification requirements. Contextual instruction and student participation in co-curricular career and technical student organization (FBLA) activities will develop leadership, interpersonal, and career skills. High-quality work-based learning (HQWBL) opportunities are potentially available in this course. HQWBL will provide experiential learning related to students' career goals and/or interests, integrated with instruction, and performed in partnership with local businesses and organizations.

Cloud Computing – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(665128) Grade: 11, 12 Credit: one
Prereq: Cyber: Network Admin 1 or Cyber: Cisco 1

Students focus on cloud infrastructure, deployment, security models, and the key considerations in migrating to cloud computing. This course covers the technologies and processes required to build traditional, virtualized, and cloud data center environments, including computation, storage, networking, desktop and application virtualization, business continuity, security, and management. Internship opportunities are available with this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. Dual enrollment credits with approved colleges or universities may be available through this course. Please note that the Dual Enrollment option for this course carries an additional weight of 1.0. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Cloud Computing DE – Marshall Acad.
Academy course enrollment must be approved by the appropriate Academy.

(6651DU) Grade: 11, 12 Credit: one / weighted +1.0
Prereq: Cyber: Network Admin 1 or Cyber: Cisco 1

Students focus on cloud infrastructure, deployment, security models, and the key considerations in migrating to cloud computing. This course covers the technologies and processes required to build traditional, virtualized, and cloud data center environments, including computation, storage, networking, desktop and application virtualization, business continuity, security, and management. Internship opportunities are available with this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment

Cyber: Oracle 1 – Edison Academy
Academy course enrollment must be approved by the appropriate Academy.

(666028) Grade: 10, 11, 12 Credit: one
Prerequisite: Cybersecurity Fundamentals, CS Programming or equivalent skill

This is an advanced information technology class where students learn database design and Structured Query Language (SQL) programming through hands-

on computer training in data modeling and database application software. Students gain the skills and knowledge needed to use features of database software and programming to manage and control access to data. Students taking this course will be preparing to take Oracle's Introduction to SQL programming exam. Preparation for careers is a major component of this class. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Cyber: Oracle 1 DE – Edison Academy
Academy course enrollment must be approved by the appropriate Academy.

(6660DU) Grade: 10, 11, 12 Credit: one / weighted +1.0
Prerequisite: Cybersecurity Fundamentals, Programming or equivalent skill

This is an advanced information technology class where students learn database design and Structured Query Language (SQL) programming through hands-on computer training in data modeling and database application software. Students gain the skills and knowledge needed to use features of database software and programming to manage and control access to data. Students taking this course will be preparing to take Oracle's Introduction to SQL programming exam. Preparation for careers is a major component of this class. Internship opportunities are available with this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment

Cyber: Oracle 2 – Edison Academy
Academy course enrollment must be approved by the appropriate Academy.

(666228) Grade: 11, 12 Credit: one
Prerequisite: Cyber: Oracle 1

Web-based technologies used throughout industry, including interactive Web sites, accounting programs, research tools, search engines, e-learning environments, email managers, and numerous other applications, depend upon relational databases. PL/SQL, an extension of the SQL programming language, provides additional database functionality through variables, constants, conditional statements, and iterative controls. Students enhance their relational database design and management skills by learning to write PL/SQL code that includes

anonymous blocks, sub programs, built-in functions, control structures, procedures, and triggers, all within a browser-based programming environment. In addition, fully functional Web-based applications are created through the use of HTML DB. Preparation for careers is a major component of this class. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Cyber: Oracle 2 DE – Edison Academy
Academy course enrollment must be approved by the appropriate Academy.

(6662DU) Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Cyber: Oracle 1 DE

Web-based technologies used throughout industry, including interactive Web sites, accounting programs, research tools, search engines, e-learning environments, e-mail managers, and numerous other applications, depend upon relational databases. PL/SQL, an extension of the SQL programming language, provides additional database functionality through variables, constants, conditional statements, and iterative controls. Students enhance their relational database design and management skills by learning to write PL/SQL code that includes anonymous blocks, sub programs, built-in functions, control structures, procedures, and triggers, all within a browser-based programming environment. In addition, fully functional Web-based applications are created through the use of HTML DB. Preparation for careers is a major component of this class. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment

Cyber: Cisco 1 – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(854326) Grade: 10, 11, 12 Credit: one
Prerequisite: Cybersecurity Fund or equivalent skill

This course teaches the first half of three interrelated Cisco networking courses. Students learn concepts & skills needed to gain an understanding of basic computer networking fundamentals. These include basic network switch configuration, understanding network models, important elements of each of the primary layers of networking --including IP and MAC addressing and TCP functions. This may inform entry-level home network installer jobs as well as skills needed to become network technicians and cable

installers. or help-desk technicians. It provides an introduction to networking and the Internet, including some hands-on familiarity with aspects of home and small business network environments. . Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Cyber: Cisco 1 DE – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(8543DA) Grade: 10, 11, 12 Credit: one / weighted +1.0
Prerequisite: Cybersecurity Fund or equivalent skill

This course teaches the first half of three interrelated Cisco networking courses. Students learn concepts & skills needed to gain an understanding of basic computer networking fundamentals. These include basic network switch configuration, understanding network models, important elements of each of the primary layers of networking --including IP and MAC addressing and TCP functions. This may inform entry-level home network installer jobs as well as skills needed to become network technicians and cable installers. or help-desk technicians. It provides an introduction to networking and the Internet, including some hands-on familiarity with aspects of home and small business network environments. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment

Cyber: Cisco 2 – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(854526) Grade: 11, 12 Credit: one
Prerequisite: Cyber: Cisco 1

Building on concepts learned in Cyber: Cisco 1, this course familiarizes students with the equipment applications and protocols installed in enterprise networks, with a focus on switched networks, wireless networking, router configuration and security. It teaches configuration of Open Shortest Path First (OSPF) Protocol as a key routing protocol. Hands-on exercises, including configuration, installation, and troubleshooting, reinforce student learning. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the

school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Cyber: Cisco 2 DE – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(8545DA) Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Cyber: Cisco 1 DE

Building on concepts learned in Cyber: Cisco 1, this course familiarizes students with the equipment applications and protocols installed in enterprise networks, with a focus on switched networks, wireless networking, router configuration and security. It teaches configuration of Open Shortest Path First (OSPF) Protocol as a key routing protocol. Hands-on exercises, including configuration, installation, and troubleshooting, reinforce student learning. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment

Cyber: Net Admin 1 – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(630426) Grade: 10, 11, 12 Credit: one
Prerequisite: Cybersecurity Fundamentals or equiv

Cyber: Network Administration I is a comprehensive, hands-on computer course in which students are taught basic networking skills using Windows and Microsoft Server. Topics covered throughout the year include network concepts, installation, configuration, management, and troubleshooting. Cyber: Network Administration I is designed to teach many aspects of computer support and network administration. Students learn networking concepts, from usage to components, and set up peer-to-peer network systems and client server networks. Students install and configure network cards and connect them to networks. Students learn how to install the operating systems, setup and manage accounts, load software, and set up and implement security plans. Upon successful completion of Cyber: Network Administration I, students may elect to obtain industry-recognized professional certification. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Cyber: Net Admin 1 DE – Marshall Acad
Academy course enrollment must be approved by the appropriate Academy.

(6304DE)
Grade: 10, 11, 12 Credit: one / weighted +1.0
Prerequisite: Cybersecurity Fund or equivalent skill

Cyber: Network Administration 1 is a comprehensive, hands-on computer course in which students are taught basic networking skills using Windows and Microsoft Server. Topics covered throughout the year include network concepts, installation, configuration, management, and troubleshooting. Cyber: Network Administration I is designed to teach many aspects of computer support and network administration. Students learn networking concepts, from usage to components, and set up peer-to-peer network systems and client server networks. Students install and configure network cards and connect them to networks. Students learn how to install the operating systems, setup and manage accounts, load software, and set up and implement security plans. Upon successful completion of Cyber:Network Administration I, students may elect to obtain industry-recognized professional certification. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment

Cyber: Net Admin 2 – Marshall Acad
Academy course enrollment must be approved by the appropriate Academy.

(630626) Grade: 10, 11, 12 Credit: one
Prerequisite: Cyber: Network Administration 1

Cyber: Network Administration 2 continues to teach aspects of network administration, focusing on the management and support of network users and systems. The topics covered include understanding the responsibilities of computer professionals, training end users, evaluating new technology, developing system policies, troubleshooting workstations, managing network services and protocols. Students learn communication protocols, troubleshooting techniques for systems and client-server networks, website management, and other advanced networking topics. Techniques that are used to install operating systems, setup and manage accounts, load software, and create and implement security plans are taught. This course may provide instruction about software-based network operating systems, such as Windows Server or Linux. Instruction will emphasize preparation for industry certification. Upon successful completion of Cyber: Network Administration II, students may elect to obtain industry-recognized professional certification. Internship opportunities are available for this course.

Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Cyber: Security Cap AV – Marshall Acad
Academy course enrollment must be approved by the appropriate Academy.

(863026)
Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Network Administration or Cyber: Systems Tech

This advanced-level course prepares students for postsecondary education and careers in the rapidly growing field of cybersecurity. Students gain competitive skills required to administer, analyze, and secure applications, networks, and devices. Students perform threat analysis and participate in risk mitigation. Concepts include understanding threats, attacks, and vulnerabilities; exploring technology and tools; examining architecture and design; analyzing identity and access management; demonstrating risk management; and examining cryptography and public key management. Upon successful completion of this course, students may qualify for the CompTIA Security+ certification exam. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. For more information, visit the CTE web site. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Robotic Systems 1 HN – Marshall Acad
Academy course enrollment must be approved by the appropriate Academy.

(854725)
Grade: 10, 11, 12 Credit: one / weighted +0.5
Prerequisite: STEM Engineering (845060) recommended or teacher approval

Robotic systems 1 teaches skills in engineering problem solving, while students employ rapid prototyping technologies; such as CNC, laser cutting, and additive manufacturing to design and construct a variety of robotic and semi-automated devices using Fanuc, VEX, Arduino, and AndyMark technologies combined with custom parts and electronics. Robotic Systems 1 and 2 make up a CTE completer.

This course requires a student materials fee as listed in FCPS Notice 5922.

Robotic Systems 2 HN – Marshall Acad
Academy course enrollment must be approved by the appropriate Academy.

(855825)
Grade: 11, 12 Credit: one / weighted +0.5
Prerequisite: Robotic Systems 1 (854725)

Robotic Systems 2 places a special emphasis on design and control while students explore the building blocks of industrial automation and robotic systems. Students prototype various robots modeled around student competitions and commercial or industrial applications. Terminology, career opportunities, and safety with automated systems are covered throughout both courses. Robotic Systems 1 and 2 make up a CTE completer.

This course requires a student materials fee as listed in FCPS Notice 5922.

AP Computer Science Principles – Online
Online Campus course enrollment must be approved by the Online Campus.

(318593)
Grade: 10, 11, 12 Credit: one / weighted +1.0
Prerequisite: Algebra 1 completion recommended

The AP Computer Science Principles course is equivalent to a first-semester introductory college computing course. The course explores the big ideas of computing: creativity, abstraction, data and information, algorithms, programming, the Internet, and global impact. These big ideas are fundamental to computing and connect students to a curriculum that includes the art of programming but is not programming-centric. Students in this course design and produce solutions, models, and artifacts, and they evaluate and analyze their own computational work as well as the computational work others have produced. There is an emphasis on innovation through collaboration and communication as a tool to analyze, justify and describe computational work.

Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved.

CTE
BUSINESS & INFORMATION TECHNOLOGY
Principles of Business (611500)
Grade: 9, 10 Credit: one

This project-based course develops students' understanding and fundamental skills in areas such as business law, economics, financial analysis, human resources management, information management, marketing, operations, and strategic management. Students acquire an understanding and appreciation of the business world. In addition to learning about the business world, students discover the roles of and effect on business in fulfilling consumer wants and needs, and fueling growth of the free enterprise system and the global economy. The real-world impact of technology, effective communication, and interpersonal skills is evident throughout the course. This course also supports career development skills and explores career options. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course is also available for Grades 11-12. This

course would be a great introduction of concepts used in IB Business Management SL.

IB Business Mgmt SL (613508)
Grade: 11, 12 Credit: one / weighted +1.0

The IB Business Management SL course aims to develop students as confident, creative and compassionate business leaders, entrepreneurs, social entrepreneurs and as change agents who understand ethical and sustainable business practices. Students will explore four interdisciplinary concepts: creativity, change, ethics and sustainability. Business management focuses on business functions, management processes and decision-making in contemporary contexts of strategic uncertainty. Students examine how business decisions are influenced by factors that are internal and external to an organization and how these decisions impact upon a range of internal and external stakeholders. Emphasis is placed on strategic decision-making and the operational business functions of human resource management, finance and accounts, marketing, and operations management. Students will produce a research project about a real business issue or problem facing an organization using a conceptual lens. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. This course fulfills the Economics and Personal Finance graduation requirement and the virtual course graduation requirement. FBLA, the co-curricular student organization, is available to students in this course. FBLA offers opportunities in leadership, community service, and competitive events.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

Accounting – Online Campus (632099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 9, 10, 11, 12 Credit: one

Accounting is the language of business and beneficial for any student planning on studying business in a postsecondary school. Students study accounting concepts for sole proprietorships, partnerships, and corporations to understand the fundamental accounting equation, the business transaction analysis process, and the elements of financial reporting. Interpretation of accounting information is mastered through decision-making and problem-solving approaches that include source documents, case studies, and simulations. Technology integration and related accounting software applications are used to enhance skills to analyze and evaluate financial situations. Internet learning activities are used to reinforce research, communication, and team building skills. Upon completion of this course, students will be able to complete an accounting cycle from transactions to financial statements. Internship

opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Advanced Accounting – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(632199) Grade: 10, 11, 12 Credit: one
Prerequisite: Accounting (632000)

Students continue to master accounting principles and procedures, adding new topics about managerial accounting, cost accounting, financial analysis, and business ethics. Content areas include property, plant and equipment, corporate investments, bonds, notes payable and receivables, amortizations, cash flow statements, and ratio analysis for the corporate structure. Spreadsheet analysis and accounting software applications provide the opportunity for higher-level thinking skill activities and authentic simulations enhance teamwork, decision making, and communication skills. Upon completion, students should be able to demonstrate an understanding of the principles of decision making, problem solving and critical thinking, and apply them to both business and personal financial situations. Internship opportunities are available with this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Digital Applications (661190)
Grade: 9, 10, 11 Credit: one

This elective course is designed to provide support to English Learners new to US schools in the development of correct keyboarding techniques and to gain a basic knowledge of word processing, spreadsheet, database, graphics, and telecommunications applications. Students demonstrate an understanding of computer concepts through application of knowledge. Students learn to use software packages and local and worldwide network communications systems. Grade 8 Computer/Technology Standards of Learning are incorporated and reinforced in this course. Students who successfully complete the course will earn an elective credit. Students successfully completing this course and Information Systems will satisfy the sequential elective requirement for the Standard Diploma.

Information Systems (661200)
Grade: 9, 10, 11, 12 Credit: one

Using project based learning, students apply problem-solving skills to real-life situations through word processing, spreadsheets, databases and multimedia presentations. Students work individually and in groups utilizing integrated software activities

within Microsoft Office 365 to explore computer concepts, operating systems, networks, telecommunications, and emerging technologies. Keyboarding instruction will be a component of this course based on student need. Upon successful completion of Information Systems, students may elect to obtain industry-recognized professional certification by taking the Microsoft Office Specialist (MOS) exams. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Adv Information Sys (661300)
Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Information Systems (661200), or equivalent skill

Advanced Information Systems provides students with the opportunity to develop professional technology skills in a project-oriented and student-centered environment. Working independently or in teams, students apply problem-solving, decision-making, creative-thinking, and communication skills to relevant, real-life situations through a series of software within Microsoft Office 365. Instruction in current and emerging information technology includes operating systems, networking and hardware principles, document preparation, presentation tools, spreadsheet analysis and charts preparation, relational database management, technical writing, desktop publishing, copyright issues, and basic web page design. Upon completion of this course, students will be able to apply technology to analyze and solve problems and to complete technology tasks efficiently and effectively. Upon successful completion of Advanced Information Systems, students may elect to obtain industry-recognized professional certification by taking the Microsoft Office Specialist (MOS) exams. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Adv Information Sys – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(661399) Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Information Systems (661200), or equivalent skill

Advanced Information Systems provides students with the opportunity to develop professional technology skills in a project-oriented and student-centered environment. Working independently or in teams, students apply problem-solving, decision-making, creative-thinking, and communication skills to relevant, real-life situations through a series of software within Microsoft Office 365s. Instruction in current and emerging information technology

includes operating systems, networking and hardware principles, document preparation, presentation tools, spreadsheet analysis and charts preparation, relational database management, technical writing, desktop publishing, copyright issues, and basic web page design. Upon completion of this course, students will be able to apply technology to analyze and solve problems and to complete technology tasks efficiently and effectively. Upon successful completion of Advanced Information Systems, students may elect to obtain industry-recognized professional certification by taking the Microsoft Office Specialist (MOS) exams. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

CS Programming (6640CS)
Grade: 9, 10, 11, 12 Credit: one

CS Programming is a one-year course in a text-based language (Python). Students write programs of increasing complexity to solve real-world problems of personal interest and professional relevance. Students explore a variety of connections to career fields and prepare for future studies in computer science. The standards build on the concepts of computer science developed in prior grade levels. Prior exposure to text-based coding is recommended, but no prerequisites are required. Through this course, students are able to join Future Business Leaders of America (FBLA), the co-curricular student organization. FBLA offers opportunities in leadership, community, and competitive events.

Recommended for students who have previously taking Coding & Innovations in Middle School, attended Coding Camp, and/or have taken Coding Classes.

CS Programming – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(664099) Grade: 9, 10, 11, 12 Credit: one

CS Programming is a one-year course in a text-based language (Python). Students write programs of increasing complexity to solve real-world problems of personal interest and professional relevance. Students explore a variety of connections to career fields and prepare for future studies in computer science. The standards build on the concepts of computer science developed in prior grade levels. Prior exposure to text-based coding is recommended, but no prerequisites are required. Through this course, students are able to join Future Business Leaders of America (FBLA), the co-curricular student organization. FBLA offers opportunities in leadership, community, and competitive events.

Advanced Programming HN (664100)
Grade: 10, 11, 12 Credit: one / weighted +0.5
Prerequisite: CS Programming

Building on a foundation of programming skills, students will use object-oriented programming to develop applications for Windows, database, multimedia, games, mobile, and/or Web environments. Students learn how to use popular game-development software to create engaging, interactive games in a variety of styles. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course is a pre-requisite for IB Computer Science SL.

Adv Programming HN – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(664199)
Grade: 10, 11, 12 Credit: one / weighted +0.5
Prerequisite: CS Programming

Building on a foundation of programming skills, students will use object-oriented programming to develop applications for Windows, database, multimedia, games, mobile, and/or Web environments. Students learn how to use popular game-development software to create engaging, interactive games in a variety of styles. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Adv Programming DE – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(6641D9)
Grade: 10, 11, 12 Credit: one / weighted +1.0
Prerequisite: CS Programming

Building on a foundation of programming skills, students will use object-oriented programming to develop applications for Windows, database, multimedia, games, mobile, and/or Web environments. Students learn how to use popular game-development software to create engaging, interactive games in a variety of styles. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment

Cyber: Oracle 1 DE – Edison Academy
Academy course enrollment must be approved by the appropriate Academy.

(6660DU)
Grade: 10, 11, 12 Credit: one / weighted +1.0
Prerequisite: Cybersecurity Fundamentals, Programming or equivalent skill

This is an advanced information technology class where students learn database design and Structured Query Language (SQL) programming through hands-on computer training in data modeling and database application software. Students gain the skills and knowledge needed to use features of database software and programming to manage and control access to data. Students taking this course will be preparing to take Oracle's Introduction to SQL programming exam. Preparation for careers is a major component of this class. Internship opportunities are available with this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment

Adv Game Design & Dev – Fairfax Acad
Academy course enrollment must be approved by the appropriate Academy. - School Site Fairfax Academy

(840126) Grade: 11, 12 Credit: one
Prerequisite: Game Design & Dev

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 work collaboratively to refine their game design skills as they apply graphic design, animation, audio and writing skills to create innovative games for education and entertainment. Students will learn about career opportunities in game design and development and investigate the training and certification requirements. Contextual instruction and student participation in co-curricular career and technical student organization (FBLA) activities will develop leadership, interpersonal, and career skills. High-quality work-based learning (HQWBL) opportunities are potentially available in this course.

HQWBL will provide experiential learning related to students' career goals and/or interests, integrated with instruction, and performed in partnership with local businesses and organizations.

Game Design & Dev – Fairfax Academy
Academy course enrollment must be approved by the appropriate Academy.

(840026) Grade: 10, 11, 12 Credit: one
Prerequisite: CS Programming, Advanced Programming, or equivalent

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

Cloud Computing – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(665128) Grade: 11, 12 Credit: one
Prerequisite: Cyber: Network Admin 1 or Cisco 1

Students focus on cloud infrastructure, deployment, security models, and the key considerations in migrating to cloud computing. This course covers the technologies and processes required to build traditional, virtualized, and cloud data center environments, including computation, storage, networking, desktop and application virtualization, business continuity, security, and management. Internship opportunities are available with this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. Dual enrollment credits with approved colleges or universities may be available through this course. Please note that the Dual Enrollment option for this course carries an additional weight of 1.0. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Cloud Computing DE – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(6651DU) Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Cyber: Network Admin 1 or Cisco 1

Students focus on cloud infrastructure, deployment, security models, and the key considerations in migrating to cloud computing. This course covers the technologies and processes required to build

traditional, virtualized, and cloud data center environments, including computation, storage, networking, desktop and application virtualization, business continuity, security, and management. Internship opportunities are available with this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment

Cybersecurity Fund (630200)
Grade: 9, 10, 11, 12 Credit: one

Cybersecurity affects every individual, organization, and nation. This course focuses on the evolving and all-pervasive technological environment with an emphasis on securing personal, organizational, and national information. 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. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Cyber: Exploring IT – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(862826) Grade: 10, 11, 12 Credit: one
Prerequisite: Cybersecurity Fundamentals or equivalent skill

Students enter the world of computer technology and gain practical experience in assembling a computer system, installing an operating system, troubleshooting computers and peripherals, and using system tools and diagnostic software. They develop skills in computer networking and resource sharing. In addition, students explore the relationships between internal and external computer components. Emphasis is placed on customer service skills and career exploration. Upon successful completion of the course, students may qualify to take the CompTIA IT Fundamentals certification exam. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Cyber: Systems Tech – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(862927) Grade: 11, 12 Credit: two
Prerequisite: Cyber: Exploring IT or equivalent skill

This advanced course provides students with hands-on training in procedures for installing, maintaining, optimizing and troubleshooting computer systems and subsystems. Students explore wireless technologies (e.g., Bluetooth, Wi-Fi) and practice network configuration. Emphasis is placed on technical proficiency, skill-building, and workplace readiness. 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 the CompTIA A+ Certification exam. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Cyber: Systems Tech DE – Marshall Acad
Academy course enrollment must be approved by the appropriate Academy.

(8629DE) Grade: 11, 12 Credit: two / weighted +1.0
Prerequisite: Cyber: Exploring IT or equivalent skill

This advanced course provides students with hands-on training in procedures for installing, maintaining, optimizing and troubleshooting computer systems and subsystems. Students explore wireless technologies (e.g., Bluetooth, Wi-Fi) and practice network configuration. Emphasis is placed on technical proficiency, skill-building, and workplace readiness. 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 the CompTIA A+ Certification exam. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment

Cyber: Net Admin 1 – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(630426) Grade: 10, 11, 12 Credit: one
Prerequisite: Cybersecurity Fundamentals or equivalent skill

Cyber: Network Administration I is a comprehensive, hands-on computer course in which students are taught basic networking skills using Windows and Microsoft Server. Topics covered throughout the year include network concepts, installation, configuration, management, and troubleshooting. Cyber: Network Administration I is designed to teach many aspects of computer support and network administration. Students learn networking concepts, from usage to components, and set up peer-to-peer network systems and client server networks. Students install and configure network cards and connect them to networks. Students learn how to install the operating systems, setup and manage accounts, load software, and set up and implement security plans. Upon successful completion of Cyber: Network Administration I, students may elect to obtain industry-recognized professional certification. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Cyber: Net Admin 1 DE – Marshall Acad
Academy course enrollment must be approved by the appropriate Academy.

(6304DE) Grade: 10, 11, 12 Credit: one / weighted +1.0
Prerequisite: Cybersecurity Fundamentals or equivalent skill

Cyber: Network Administration 1 is a comprehensive, hands-on computer course in which students are taught basic networking skills using Windows and Microsoft Server. Topics covered throughout the year include network concepts, installation, configuration, management, and troubleshooting. Cyber: Network Administration I is designed to teach many aspects of computer support and network administration. Students learn networking concepts, from usage to components, and set up peer-to-peer network systems and client server networks. Students install and configure network cards and connect them to networks. Students learn how to install the operating systems, setup and manage accounts, load software, and set up and implement security plans. Upon successful completion of Cyber: Network Administration I, students may elect to obtain industry-recognized professional certification. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment

Cyber: Net Admin 2 – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(630626) Grade: 10, 11, 12 Credit: one
Prerequisite: Cyber: Network Administration 1

Cyber: Network Administration 2 continues to teach aspects of network administration, focusing on the management and support of network users and systems. The topics covered include understanding the responsibilities of computer professionals, training end users, evaluating new technology, developing system policies, troubleshooting workstations, managing network services and protocols. Students learn communication protocols, troubleshooting techniques for systems and client-server networks, website management, and other advanced networking topics. Techniques that are used to install operating systems, setup and manage accounts, load software, and create and implement security plans are taught. This course may provide instruction about software-based network operating systems, such as Windows Server or Linux. Instruction will emphasize preparation for industry certification. Upon successful completion of Cyber: Network Administration II, students may elect to obtain industry-recognized professional certification. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Cyber: Oracle 1 – Edison Academy
Academy course enrollment must be approved by the appropriate Academy.

(666028) Grade: 10, 11, 12 Credit: one
Prerequisite: Cybersec Fund, CS Program or equiv

This is an advanced information technology class where students learn database design and Structured Query Language (SQL) programming through hands-on computer training in data modeling and database application software. Students gain the skills and knowledge needed to use features of database software and programming to manage and control access to data. Students taking this course will be preparing to take Oracle's Introduction to SQL programming exam. Preparation for careers is a major component of this class. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Cyber: Oracle 2 – Edison Academy
Academy course enrollment must be approved by the appropriate Academy.

(666228) Grade: 11, 12 Credit: one
Prerequisite: Cyber: Oracle 1

Web-based technologies used throughout industry, including interactive Web sites, accounting programs, research tools, search engines, e-learning environments, email managers, and numerous other applications, depend upon relational databases. PL/SQL, an extension of the SQL programming language, provides additional database functionality through variables, constants, conditional statements, and iterative controls. Students enhance their relational database design and management skills by learning to write PL/SQL code that includes anonymous blocks, sub programs, built-in functions, control structures, procedures, and triggers, all within a browser-based programming environment. In addition, fully functional Web-based applications are created through the use of HTML DB. Preparation for careers is a major component of this class. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Cyber: Oracle 2 DE – Edison Academy
Academy course enrollment must be approved by the appropriate Academy.

(6662DU) Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Cyber: Oracle 1 DE

Web-based technologies used throughout industry, including interactive Web sites, accounting programs, research tools, search engines, e-learning environments, e-mail managers, and numerous other applications, depend upon relational databases. PL/SQL, an extension of the SQL programming language, provides additional database functionality through variables, constants, conditional statements, and iterative controls. Students enhance their relational database design and management skills by learning to write PL/SQL code that includes anonymous blocks, sub programs, built-in functions, control structures, procedures, and triggers, all within a browser-based programming environment. In addition, fully functional Web-based applications are created through the use of HTML DB. Preparation for careers is a major component of this class. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization. **To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment**

Cyber: Cisco 1 – Marshall Academy

Academy course enrollment must be approved by the appropriate Academy.

(854326) Grade: 10, 11, 12 Credit: one
Prerequisite: Cybersecurity Fundamentals or equivalent skill

This course teaches the first half of three interrelated Cisco networking courses. Students learn concepts & skills needed to gain an understanding of basic computer networking fundamentals. These include basic network switch configuration, understanding network models, important elements of each of the primary layers of networking --including IP and MAC addressing and TCP functions. This may inform entry-level home network installer jobs as well as skills needed to become network technicians and cable installers. or help-desk technicians. It provides an introduction to networking and the Internet, including some hands-on familiarity with aspects of home and small business network environments. . Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Cyber: Cisco 1 DE – Marshall Academy

Academy course enrollment must be approved by the appropriate Academy.

(8543DA) Grade: 10, 11, 12 Credit: one / weighted +1.0
Prerequisite: Cybersecurity Fundamentals or equivalent skill

This course teaches the first half of three interrelated Cisco networking courses. Students learn concepts & skills needed to gain an understanding of basic computer networking fundamentals. These include basic network switch configuration, understanding network models, important elements of each of the primary layers of networking --including IP and MAC addressing and TCP functions. This may inform entry-level home network installer jobs as well as skills needed to become network technicians and cable installers. or help-desk technicians. It provides an introduction to networking and the Internet, including some hands-on familiarity with aspects of home and small business network environments. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment

Cyber: Cisco 2 – Marshall Academy

Academy course enrollment must be approved by the appropriate Academy.

(854526) Grade: 11, 12 Credit: one
Prerequisite: Cyber: Cisco 1

Building on concepts learned in Cyber: Cisco 1, this course familiarizes students with the equipment applications and protocols installed in enterprise networks, with a focus on switched networks, wireless networking, router configuration and security. It teaches configuration of Open Shortest Path First (OSPF) Protocol as a key routing protocol. Hands-on exercises, including configuration, installation, and troubleshooting, reinforce student learning. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Cyber: Cisco 2 DE – Marshall Academy

Academy course enrollment must be approved by the appropriate Academy.

(8545DA) Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Cyber: Cisco 1 DE

Building on concepts learned in Cyber: Cisco 1, this course familiarizes students with the equipment applications and protocols installed in enterprise networks, with a focus on switched networks, wireless networking, router configuration and security. It teaches configuration of Open Shortest Path First (OSPF) Protocol as a key routing protocol. Hands-on exercises, including configuration, installation, and troubleshooting, reinforce student learning. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment

Cyber: Security Cap AV – Marshall Acad

Academy course enrollment must be approved by the appropriate Academy.

(863026) Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Network Administration or Cyber: Systems Tech

This advanced-level course prepares students for postsecondary education and careers in the rapidly growing field of cybersecurity. Students gain competitive skills required to administer, analyze,

and secure applications, networks, and devices. Students perform threat analysis and participate in risk mitigation. Concepts include understanding threats, attacks, and vulnerabilities; exploring technology and tools; examining architecture and design; analyzing identity and access management; demonstrating risk management; and examining cryptography and public key management. Upon successful completion of this course, students may qualify for the CompTIA Security+ certification exam. Internship opportunities are available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. For more information, visit the CTE web site. FBLA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

CTE

FAMILY & CONSUMER SCIENCES

Intro to Culinary – Marshall Academy

Academy course enrollment must be approved by the appropriate Academy.

(825026) Grade: 10, 11, 12 Credit: one

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. 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 (HQWBL) 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.

This course requires a student materials fee as listed in FCPS Notice 5922.

Culinary Arts 1 – Marshall Academy

Academy course enrollment must be approved by the appropriate Academy.

(827527) Grade: 11, 12 Credit: two
Prerequisite: Recommended prerequisite: Introduction to Culinary Arts 8250

This course provides students with a foundation of the food service industry and opportunities to build technical skills in food preparation and service. Content area instruction includes: sanitation, hot food production, meat identification and fabrication, purchasing and receiving goods, and fundamental nutritional principles. The curriculum incorporates math and science in culinary applications. 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 (HQWBL) 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.

This course requires a student materials fee as listed in FCPS Notice 5922.

Culinary Arts 2 – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(827627) Grade: 11, 12 Credit: two
Prerequisite: Culinary Arts 1 (827500/27)

Culinary Arts 2 students continue to acquire a comprehensive knowledge of the food service industry while refining their technical skills. Advanced instruction in table service, baking, and management techniques are emphasized. Students create a plan for establishing a restaurant that includes menu selection and preparation, facilities design, and management components. 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 (HQWBL) 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.

This course requires a student materials fee as listed in FCPS Notice 5922.

Culinary Operations – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(827426) Grade: 12 Credit: one
Prerequisite: Culinary Arts 2 (827627 or 827600)

Culinary Operations provides students with skills and knowledge which enables them to pursue careers in the food service industry. In a hands-on environment, students apply nutritional principles, plan menus, use business and mathematics skills to calculate purchasing, pricing, and profit margins. Students learn about selecting and maintaining food service equipment. The curriculum continues to place a strong emphasis on critical thinking, practical problem-solving, and entrepreneurial opportunities within the field of culinary arts. 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 (HQWBL) 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.

This course requires a student materials fee as listed in FCPS Notice 5922.

Pastry Arts – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(827926) Grade: 12 Credit: one
Prerequisite: Culinary Arts 2 (827627 or 827600)

Pastry Arts provides students opportunities to expand their technical skills in a food service specialty. 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 knowledge and skills and emphasizes critical thinking, practical problem solving, and entrepreneurial opportunities within the field of culinary arts. 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 (HQWBL) 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.

This course requires a student materials fee as listed in FCPS Notice 5922.

Fashion Careers 1 – Fairfax Academy
Academy course enrollment must be approved by the appropriate Academy.

(828027) Grade: 11, 12 Credit: two
Prerequisite: Recommended: Art 1 (912000), Fashion Marketing (814000), or Introduction to Interior Design (825432). A performance review may be required.

The Fashion Careers 1 students will begin to develop technical and presentation skills in the field of fashion design. The program will emphasize the creative process of design concepts, sketching, draping, pattern making, and garment construction. These skills will enable the student to design and construct a project from creative conception to completion. Students will learn the business of fashion including fabric technology and apparel-production techniques. 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 (HQWBL) 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. (Students interested in this course should also see Fashion Marketing 1 under Marketing.)

This course requires a student materials fee as listed in FCPS Notice 5922.

Fashion Careers 2 – Fairfax Academy
Academy course enrollment must be approved by the appropriate Academy.

(828127) Grade: 12 Credit: two
Prerequisite: Fashion Careers 1 (828027) or Portfolio Review (examples of student work) and/or a performance review may be required.

Students enrolled in the Fashion Careers 2 course focus on advanced technical skills identified as necessary for careers in the fashion industry. Students build on existing skills in the areas of design concepts, illustration, pattern making, and garment construction and create a fashion portfolio. A fashion line is executed from conception to completion. Opportunities for entrepreneurship within the field of fashion design are explored. 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 (HQWBL) 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. (Students interested in this course should also see Fashion Marketing 1 under Marketing.)

This course requires a student materials fee as listed in FCPS Notice 5922.

CTE
HEALTH & MEDICAL SCIENCES

Explore Health Sci – Falls Church Acad
Academy course enrollment must be approved by the appropriate Academy.

(830226) Grade: 10, 11, 12 Credit: one

Students must also register for part two, Exploring the Language of Medicine (838326) for the spring semester. This course introduces the student to health care careers and develops basic skills common to all health and medical sciences. It is recommended as the first course for other health and medical sciences courses. This course focuses on exploring health careers, communication skills, safety, first aid, and Healthcare Provider CPR. This course is part of the Claude Moore Scholars, a healthcare education program. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Expl Lang Medicine – Falls Church Acad
Academy course enrollment must be approved by the appropriate Academy. - Every other day, all year.

(838325) Grade: 10, 11, 12 Credit: one

This course builds on the foundations of the Exploring Health Sciences course. Exploring the Language of Medicine is designed to help students learn medical terminology. It is presented in logical order, beginning with each body system anatomy and physiology and progressing through pathology,

diagnostic procedures, therapeutic interventions, and pharmacology. Concepts, terms, and abbreviations are also presented to the students. This course is also available online. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Expl Lang Medicine DE – Falls Church Acad
Academy course enrollment must be approved by the appropriate Academy. - Every other day, all year.

(8383DU) Grade: 10, 11, 12 Credit: one / weighted +1.0

Exploring the Language of Medicine is designed to help students learn common medical terms essential for safe patient care. It is presented in logical order, beginning with each body system anatomy and physiology and progressing through pathology, diagnostic procedures, therapeutic interventions, and pharmacology. Concepts, terms, and abbreviations are also presented to the students. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment

Expl Lang Medicine – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(838399) Grade: 9, 10, 11, 12 Credit: one

Exploring the Language of Medicine is designed to help students learn medical terminology. It is presented in logical order, beginning with each body system anatomy and physiology and progressing through pathology, diagnostic procedures, therapeutic interventions, and pharmacology. Concepts, terms, and abbreviations are also presented to the students. This course is part of the Claude Moore Scholars, a healthcare education program. Exploring the Language of Medicine is strongly recommended for students interested in future Health and Medical Sciences classes.

Expl Lang Medicine – Falls Church Acad
Academy course enrollment must be approved by the appropriate Academy.

(838326) Grade: 10, 11, 12 Credit: one
Prerequisite: Exploring Health Sciences (830226)

Students must also register for part one, Exploring Health Sciences (830226) for the fall semester. This course builds on the foundations of the Exploring Health Sciences course. Exploring the Language of Medicine is designed to help students learn medical terminology. It is presented in logical order, beginning with each body system anatomy and physiology and progressing through pathology, diagnostic procedures, therapeutic interventions, and

pharmacology. Concepts, terms, and abbreviations are also presented to the students. This course is also available online. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Expl Lang Medicine DE – Falls Church Acad
Academy course enrollment must be approved by the appropriate Academy.

(8383DE) Grade: 10, 11, 12 Credit: one / weighted +1.0
Prerequisite: Exploring Health Sciences (830226)

Students must also register for part one, Exploring Health Sciences for the fall semester. This course builds on the foundations of the Exploring Health Sciences course. Exploring the Language of Medicine is designed to help students learn medical terminology. It is presented in logical order, beginning with each body system anatomy and physiology and progressing through pathology, diagnostic procedures, therapeutic interventions, and pharmacology. Concepts, terms, and abbreviations are also presented to the students. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment

Expl Lang Medicine DE – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(8383D9) Grade: 10, 11, 12 Credit: one / weighted +1.0

Exploring the Language of Medicine is designed to help students learn medical terminology. It is presented in logical order, beginning with each body system anatomy and physiology and progressing through pathology, diagnostic procedures, therapeutic interventions, and pharmacology. Concepts, terms, and abbreviations are also presented to the students.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment

Biotech Found HN – Falls Church Acad
Academy course enrollment must be approved by the appropriate Academy.

(834460) Grade: 11, 12 Credit: one / weighted +0.5

This course focuses on various techniques that are used to modify living organisms, or parts of organisms, to improve plants and animals, and the

development of microorganisms for specific purposes. Student activities range from bioprocessing and DNA analysis, to medicine, biomechanical systems, and the environment. Students gain insight and understanding about biotechnology career fields. This course is part of the Claude Moore Scholars, a healthcare education program. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Health Informatics – Falls Church Acad
Academy course enrollment must be approved by the appropriate Academy.

(838327) Grade: 10, 11, 12 Credit: two

Health Informatics is information engineering applied to the field of health care. Students will have the opportunity to explore the importance of safeguarding electronic healthcare information and will be introduced to the various technologies and trends that affect the healthcare industry. Health informatics is a rapidly growing field with a projected 21 percent increase in demand for workers throughout the state of Virginia from 2014-2024.* Students will explore aspects of health informatics to include the history of health information technology (IT) in the United States, the Electronic Health Record (EHR), ethical and privacy issues, and cybersecurity and data breaches. This course is part of the Claude Moore Scholars, a healthcare education program. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Health Informatics – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(838397) Grade: 9, 10, 11, 12 Credit: two

Health Informatics is information engineering applied to the field of health care. Students will have the opportunity to explore the importance of safeguarding electronic healthcare information and will be introduced to the various technologies and trends that affect the healthcare industry. Health informatics is a rapidly growing field with a projected 21 percent increase in demand for workers throughout the state of Virginia from 2014-2024.* Students will explore aspects of health informatics to include the history of health information technology (IT) in the United States, the Electronic Health Record (EHR), ethical and privacy issues, and cybersecurity and data breaches. This course is part of the Claude Moore Scholars, a healthcare education program. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Medical Code & Bill 1 – Falls Church Acad
Academy course enrollment must be approved by the appropriate Academy.

(838826) Grade: 10, 11, 12 Credit: one

Students must also register for part two, Medical Billing/Coding 2 (838926) for the spring semester. Students will be introduced to healthcare systems, how to manage an office, and the electronic medical record (EMR) as it pertains to the field of medical coding and billing. Students will be exposed to the medical terminology used to describe human anatomy and physiology. Students will also be introduced to the field of health informatics. This course is part of the Claude Moore Scholars, a healthcare education program and grant supporting the HMS program. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Medical Code & Bill 2 – Falls Church Acad
Academy course enrollment must be approved by the appropriate Academy.

(838926) Grade: 10, 11, 12 Credit: one
Prerequisite: Students must also register for part one, Medical Billing/Coding I for the fall semester.

Students will become familiar with the health insurance industry and legal and regulatory issues. Students will learn the principles of medical coding and billing related to reimbursement, claim submission, and payment regarding ICD, CPT, and HCPCS coding systems. Students will consider the impact of fraud and the importance of biomedical ethics. This course is part of the Claude Moore Scholars, a healthcare education program and grant supporting the HMS program. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Medical Assistant 1 – Falls Church Acad
Academy course enrollment must be approved by the appropriate Academy.

(834527) Grade: 11, 12 Credit: two

Prerequisite: Exploring Health Sciences (830226) and Exploring the Language of Medicine (838326) are recommended but not required. Exploring the Language of Medicine may be taken through Online Campus.

Medical Assistant 1 allows students to develop entry-level skills and techniques to increase their knowledge base so that they may enter the healthcare field. Some of these skills and knowledge base areas include administrative and clinical medical assisting. Field trips to a variety of health care settings may be available. Students must meet

current health agency requirements to participate in clinical experiences. This course is part of the Claude Moore Scholars, a healthcare education program. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events. Students who complete the Medical Assisting Program qualify to take the Certified Clinical Medical Assistant (CCMA) exam.

This course requires a student materials fee as listed in FCPS Notice 5922.

Medical Assistant 2 – Falls Church Acad
Academy course enrollment must be approved by the appropriate Academy.

(834627) Grade: 12 Credit: two
Prerequisite: Medical Assistant 1 (834526)

Students further develop medical-assisting skills and techniques learned in Medical Assistant 1. They also learn management of patient records, cardiopulmonary resuscitation, care and use of equipment, collection and analysis of laboratory specimens, special diagnostic testing, basic diseases and disorders, basic knowledge of treatment and medication, and job preparedness skills. Advanced on-the-job clinical experience in a healthcare facility may be available as a part of the course. Successful completion of the program may lead to employment in physicians' offices or clinics. Students have the opportunity to earn Healthcare Provider CPR and Students have the opportunity to take the Certified Clinical Medical Assistant (CCMA) credential. Students must meet current health agency requirements to participate in clinical experiences. This course is part of the Claude Moore Scholars, a healthcare education program. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events. 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 businesses and organizations.

This course requires a student materials fee as listed in FCPS Notice 5922.

Intro to Nursing 1 – Plum Center
Academy course enrollment must be approved by the appropriate Academy. - This course has specific state laws and regulations from a governing medical board or agency. A mandatory 40 hour clinical is required outside of school hours in level 2, transportation is not provided.

(835526) Grade: 11, 12 Credit: one

Prerequisite: Exploring the Language of Medicine is recommended but not required (838326). Exploring the Language of Medicine may be taken through Online Campus (838399 or 8383D9) is recommended but not required. Parents and students are required to attend an orientation session with the instructor prior to the beginning of the course.

This is part one (fall semester) of a two-part, full-year course. Students must also register for part two, Introduction to Nursing 2 for the spring semester. Introduction to Nursing 1 emphasizes the study of nursing occupations as related to the healthcare system. Students study normal growth and development, simple body structure and function, medical terminology and are introduced to concepts of infection prevention and disease processes. This course has specific state laws and regulations from a governing medical board or agency. A mandatory 40 hour clinical is required outside of school hours, transportation is not provided. An updated immunization record, criminal background checks, and drug screens will be required prior to the student participating in the clinical experience. Students must purchase uniforms and meet current health agency requirements to participate in clinical experiences. This course is part of the Claude Moore Scholars, a healthcare education program and grant supporting the HMS program. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events. 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 businesses and organizations.

This course requires a student materials fee as listed in FCPS Notice 5922.

Intro to Nursing 2 – Plum Center
Academy course enrollment must be approved by the appropriate Academy. - This course has specific state laws and regulations from a governing medical board or agency. A mandatory 40 hour clinical is required outside of school hours, transportation is not provided.

(835626) Grade: 11, 12 Credit: one

Prerequisite: Introduction to Nursing I. Parents and students are required to attend an orientation session with the instructor prior to the beginning of the course.

This is part two (spring semester) of a two-part, full-year course. Course content progresses from Introduction to Nursing I and emphasizes advanced skill training and admission and discharge procedures. Students build on knowledge of diseases and body systems as related to advanced clinical care of the acute medical-surgical patient, the chronically ill, and the elderly. This course has specific state laws and regulations from a governing medical board or agency. A mandatory 40 hour clinical is required outside of school hours, transportation is not provided. An updated immunization record, criminal background checks, and drug screens will be required prior to the student participating in the clinical experience. Students must purchase uniforms and meet current health agency requirements to participate in clinical experiences. Students successfully completing the program and clinical rotation may be eligible to sit for the Certified Nursing Assistant (CNA) exam. Successful completion of the program may lead to employment in assisted living facilities, physicians' offices or clinics. This

course is part of the Claude Moore Scholars, a healthcare education program and grant supporting the HMS program. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events. 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 businesses and organizations.

This course requires a student materials fee as listed in FCPS Notice 5922.

Patient Care Tech – Plum Center

Academy course enrollment must be approved by the appropriate Academy.

(830327) Grade: 12 Credit: two

Prerequisite: Certified Nursing Assistant certification available through Introduction to Nursing 1 and 2.

Patient Care Technician, emphasizes the study of nursing occupations as related to the healthcare system. Students study normal growth and development, simple body structure and function, and medical terminology and are introduced to microbes and disease. Upon completion of the course, students will master skills performing ECGs, basic medical, lab and exam procedures, drawing blood, and providing basic patient care. Students will be eligible to take the National Certification exams to become a Certified Phlebotomy Technician, Certified EKG Technician, and Certified Patient Care Technician. Students must meet current health agency requirements to participate in clinical experiences. This course is part of the Claude Moore Scholars, a healthcare education program and grant supporting the HMS program. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Practical Nursing 1 HN – Plum Center

Academy course enrollment must be approved by the appropriate Academy. - Program will run as a 2-year cohort. Junior year is an everyday course. Senior year is an all-day every other day course. This course has specific state laws and regulations from a governing medical board or agency. Transportation during junior year is subject to Academy transportation availability. Seniors must provide their own transportation to class at Plum Center and various clinical sites across Northern Virginia.

(835728)
Grade: 11 Credit: two / weighted +0.5
Prerequisite: Students must be 18 years old by January 1 of senior year in order to participate in clinical hours.

This Virginia Board of Nursing approved program will run as a 2-year cohort. Junior year is an everyday academy block class. Senior year is an all-day every other day academy course. Practical Nursing offers preclinical and clinical nursing instruction. Practical

Nursing includes in education in specific subject areas: introduction to practical nursing, nursing fundamentals and skills, anatomy and physiology, medical terminology, pharmacology and medical math, growth, development and geriatrics, maternal child health and pediatrics, mental health, nutrition for nurses, leadership and healthcare issues and trends. Clinical-based education, supervised by faculty Registered Nurses, provides students with the opportunity to use skills to provide basic bedside nursing care. Community healthcare agencies are used for clinical patient care areas such as hospitals, nursing homes, physician offices and others. Classes are held at the Plum Center for Lifelong Learning. This course has specific state laws and regulations from a governing medical board or agency. Students must purchase uniforms and meet current health agency requirements to participate in clinical experiences. Some of our clinical healthcare facilities that accept federal funding (e.g., Medicare, Medicaid) require criminal background checks, drug screens, and COVID Vaccination for students participating in a clinical experience. An updated immunization record will be required prior to the student participating in the clinical experience. Students successfully completing the full 2-year program are eligible to sit for the Virginia Practical Nursing Licensing Exam (NCLEX-PN) provided they have a Social Security Number or a control number issued by the Virginia Department of Motor Vehicles as required by the Virginia Board of Nursing. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events. This course has specific state laws and regulations from a governing medical board or agency. 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 businesses and organizations.

This course requires a student materials fee as listed in FCPS Notice 5922.

Practical Nursing 2 HN – Plum Center

Academy course enrollment must be approved by the appropriate Academy. - Program will run as a 2-year cohort. Junior year is an everyday course. Senior year is an all-day every other day course. This course has specific state laws and regulations from a governing medical board or agency. Transportation during junior year is subject to Academy transportation availability. Seniors must provide their own transportation to class at Plum Center and various clinical sites across Northern Virginia.

(835829)
Grade: 12 Credit: four / weighted +0.5
Prerequisite: Students must be 18 years old by January 1 of senior year in order to participate in clinical hours.

Practical Nursing offers preclinical and clinical nursing instruction. Practical Nursing includes in education in specific subject areas: introduction to practical nursing, nursing fundamentals and skills, anatomy and physiology, medical terminology, pharmacology and medical math, growth, development and geriatrics, maternal child health and pediatrics,

mental health, nutrition for nurses, leadership and healthcare issues and trends. Clinical-based education, supervised by faculty Registered Nurses, provides students with the opportunity to use skills to provide basic bedside nursing care. Community healthcare agencies are used for clinical patient care areas such as hospitals, nursing homes, physician offices and others. Classes are held at the Plum Center for Lifelong Learning. 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 businesses and organizations. Students must purchase uniforms and meet current health agency requirements to participate in clinical experiences. Some of our clinical healthcare facilities that accept federal funding (e.g., Medicare, Medicaid) require criminal background checks, drug screens and COVID Vaccination for students participating in a clinical experience. An updated immunization record will be required prior to the student participating in the clinical experience. Students successfully completing the full 2-year program are eligible to sit for the Virginia Practical Nursing Licensing Exam (NCLEX-PN) provided they have a Social Security Number or a control number issued by the Virginia Department of Motor Vehicles as required by the Virginia Board of Nursing. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events. 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 businesses and organizations.

This course requires a student materials fee as listed in FCPS Notice 5922.

Phys/Occ Therapy 1 – West Po Academy

Academy course enrollment must be approved by the appropriate Academy.

(836527) Grade: 11, 12 Credit: two
Prerequisite: Biology 1 is recommended but not required Exploring the Language of Medicine is recommended but not required (838326). Exploring the Language of Medicine may be taken through Online Campus (838399 or 8383D9) is recommended but not required.

This course is designed to provide an introduction to the professions of physical and occupational therapy. Students will explore the principles and practices of therapists in the healthcare industry and may participate in a clinical experience under the direct supervision of a licensed physical and/or occupational therapist. Clinical skills in the areas of physical therapy and occupational therapy will enable students to gain experience in rehabilitative care, which is practiced throughout the continuum of care and across the lifespan of individuals. After successful completion of this course, students will be prepared for employment as a rehabilitation technician or students may seek higher education for specific degrees in a variety of fields such as physical therapy, occupational therapy, speech therapy, sports medicine, athletic training, chiropractic medicine,

biology, or exercise physiology. Students must purchase liability insurance and meet current health agency requirements to participate in clinical experiences. This course is part of the Claude Moore Scholars, a healthcare education program. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Phys/Occ Therapy 1 DE – West Po Acad
Academy course enrollment must be approved by the appropriate Academy.

(8365DE) Grade: 11, 12 Credit: two / weighted +1.0
Prerequisite: Biology 1 is recommended but not required. Exploring the Language of Medicine is recommended but not required (838326). Exploring the Language of Medicine may be taken through Online Campus (838399 or 8383D9) is recommended but not required.

This course is designed to provide an introduction to the professions of physical and occupational therapy. Students will explore the principles and practices of therapists in the healthcare industry and may participate in a clinical experience under the direct supervision of a licensed physical and/or occupational therapist. Clinical skills in the areas of physical therapy and occupational therapy will enable students to gain experience in rehabilitative care, which is practiced throughout the continuum of care and across the lifespan of individuals. After successful completion of this course, students will be prepared for employment as a rehabilitation technician or students may seek higher education for specific degrees in a variety of fields such as physical therapy, occupational therapy, speech therapy, sports medicine, athletic training, chiropractic medicine, biology, or exercise physiology. Students must purchase liability insurance and meet current health agency requirements to participate in clinical experiences. This course is part of the Claude Moore Scholars, a healthcare education program. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment.

This course requires a student materials fee as listed in FCPS Notice 5922.

Phys/Occ Therapy 2 – West Po Academy
Academy course enrollment must be approved by the appropriate Academy.

(836627) Grade: 11, 12 Credit: two
Prerequisite: Physical Therapy/Occupational Therapy 1 (836527)

Physical Therapy/Occupational Therapy 2 provides a more in-depth study of the topics covered in the first-level course with emphasis upon individual interests and strengths. Students will be able to select and participate in a clinical experience of their choice from a wide range of clinical settings serving diverse patient populations. The course work will focus on the advancement of problem-solving skills, hands-on techniques, and interpersonal skills with an introduction to clinical research. There will be a greater emphasis on musculoskeletal anatomy during the first two quarters of this course. This course is most appropriate for students anticipating employment or further studies in physical therapy, occupational therapy, or other related healthcare careers. Students must purchase scrubs and liability insurance and meet current health agency requirements to participate in clinical experiences. Students meet current health agency requirements to participate in clinical experiences. This course is part of the Claude Moore Scholars, a healthcare education program. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Dental Careers 1 – Falls Church Academy
Academy course enrollment must be approved by the appropriate Academy. - This course has specific state laws and regulations from a governing medical board or agency.

(832827) Grade: 11, 12 Credit: two
Prerequisite: Exploring the Language of Medicine (838326, 838399 or 8383D9) is recommended but not required.

Dental Careers 1 is the first-level course of a two-year dental assisting program. The course focuses on introducing all dental-related careers as well as competencies necessary to manage a dental office. The curriculum includes head and neck anatomy, infection control, tooth charting, and instrumentation. The dental skills relevant to the curriculum are practiced in a classroom dental clinic. Students meet current health agency requirements to participate in clinical experiences. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Dental Careers 2 – Falls Church Academy
Academy course enrollment must be approved by the appropriate Academy. - This course has specific state laws and regulations from a governing medical board or agency.

(832927) Grade: 12 Credit: two
Prerequisite: Dental Careers 1 (832827)

During the second year, dental students refine advanced skills and learn more about the management of the office as well as the dental specialties of oral surgery, orthodontics, and

periodontics. Students may have the opportunity to participate in an internship and practice patient care at local dental offices. Students may sit for the Dental Assisting National Board (DANB) Radiation Health and Safety certification. Students must meet current dental health agency requirements to participate in clinical experiences. This course is part of the Claude Moore Scholars, a healthcare education program. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Pharmacy Tech 1 – Falls Church Academy
Academy course enrollment must be approved by the appropriate Academy. - This course has specific state laws and regulations from a governing medical board or agency.

(830527) Grade: 11, 12 Credit: one

Level 1 is designed to provide students with 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 for level 2. 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. Students must meet current health agency requirements to participate in clinical experiences. 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. This course is part of the Claude Moore Scholars, a healthcare education program and grant supporting the HMS program. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events. This course will be nationally accredited by the ASHP and will include the minimum number of hours as follows: Didactic – 120 hours; Simulated – 50 hours; Experiential – 130 hours (total of 300 hours); plus 100 additional hours, to obtain the minimum of 400 hours of training total. The additional 100 hours may be allocated to the three educational modalities listed above, based on the discretion of the program director and faculty.

This course requires a student materials fee as listed in FCPS Notice 5922.

Pharmacy Tech 2 – Falls Church Academy
Academy course enrollment must be approved by the appropriate Academy. - Students must be within 60 days of graduation to sit for the Exam for the Certification of Pharmacy Technician.

(830627) Grade: 12 Credit: two
Prerequisite: Pharmacy Tech 1 (830527)

Level 2 is designed to provide students with advanced 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 a national examination. 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. This course has specific state laws and regulations from a governing medical board or agency. Students must meet current health agency requirements to participate in clinical experiences. This course will be nationally accredited and will include the minimum number of hours as follows: Didactic – 120 hours; Simulated – 50 hours; Experiential – 130 hours (total of 300 hours); plus 100 additional hours, to obtain the minimum of 400 hours of training total. The additional 100 hours may be allocated to the three educational modalities listed above, based on the discretion of the program director and faculty. This course is part of the Claude Moore Scholars, a healthcare education program and grant supporting the HMS program. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events. 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 businesses and organizations.

This course requires a student materials fee as listed in FCPS Notice 5922.

Veterinary Science 1 – Edison Academy
Academy course enrollment must be approved by the appropriate Academy.

(808827) Grade: 10, 11, 12 Credit: two

This course is designed to prepare students for postsecondary education and/or careers in veterinary medicine or related fields. Core curriculum includes animal anatomy and physiology, medical terminology, animal behavior, handling techniques, nutrition, disease pathology, sanitation, and disease control. Students gain hands-on experience working with live animals. FFA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events. 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 businesses and organizations.

This course requires a student materials fee as listed in FCPS Notice 5922.

Veterinary Science 2 – Edison Academy
Academy course enrollment must be approved by the appropriate Academy.

(808927) Grade: 11, 12 Credit: two
Prerequisite: Veterinary Science 1 (808827)

Course content progresses from Veterinary Science 1 and expands student knowledge of animal science and the care of animals, including animal structure and function. Students develop more advanced skills

and techniques for assisting the veterinarian. Students continue to care for live animals. FFA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events. 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 businesses and organizations.

This course requires a student materials fee as listed in FCPS Notice 5922.

911 Dispatch – West Potomac Academy
Academy course enrollment must be approved by the appropriate Academy. This course has specific state laws and regulations from a governing medical board or agency.

(833726) Grade: 10, 11, 12 Credit: one

911 Dispatch is designed to develop entry-level skills needed in an emergency telecommunication environment for public safety. The course provides the beginning telecommunicator with an understanding of situations encountered in an emergency communications environment. Upon completion, the student will be able to: summarize issues involving the telecommunicator's role and responsibilities as a member of health and public safety environment; summarize issues involving available resources to a telecommunicator; the importance of maintaining confidentiality, liability and legal issues involving emergency telecommunicators and their agencies; summarize the process of stress management for inside and outside a communications department/center. This course is part of the Claude Moore Scholars, a healthcare education program. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Emerg Med Tech 1 – West Po Academy
Academy course enrollment must be approved by the appropriate Academy. - This course has specific state laws and regulations from a governing medical board or agency. Students must also register for Emergency Medical Technician 2 (833426).

(833326) Grade: 11, 12 Credit: one
Prerequisite: Students must be 16 years old prior to the first day of instruction. Exploring the Language of Medicine is recommended but not required (838326). Exploring the Language of Medicine may be taken through Online Campus (838399 or 8383D9) is recommended but not required.

The curriculum for this course represents the National and Virginia Emergency Medical Services (EMS) Educational Standards. Students explore and apply the fundamentals of Emergency Medical Services (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 2 to complete the program sequence. This course is part of the Claude Moore Scholars, a healthcare education program. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Emerg Med Tech 2 – West Po Academy
Academy course enrollment must be approved by the appropriate Academy. - This course has specific state laws and regulations from a governing medical board or agency.

(833426) Grade: 11, 12 Credit: one
Prerequisite: Emergency Medical Technician 1 (833326). Students must be 16 years old prior to the first day of instruction.

The curriculum for this course represents 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 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. This course is part of the Claude Moore Scholars, a healthcare education program. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events. This course has specific state laws and regulations from a governing medical board or agency.

This course requires a student materials fee as listed in FCPS Notice 5922.

Firefighting 1 – Fire Academy
Academy course enrollment must be approved by the appropriate Academy. - Parents and students are required to attend an orientation session with the instructor prior to the beginning of the course. Emergency Medical Technician 1 and 2 strongly encouraged.

(870527) Grade: 12 Credit: two
Prerequisite: Students MUST be 16 years old (40-1.79.1 Code of Virginia) by the first day of the course. Enrollment requires parental consent. Students are required to meet a minimum standard on the Candidate Physical Ability Test (CPAT) prior to starting the course.

This is part one (fall semester) of a two-part, full-year course. Firefighting is one of the most dangerous jobs in the world and, therefore, requires complete discipline and attention to achieving the academic and professional standards necessary to successfully fight live fires, address hazardous-material incidents,

and conduct search-and-rescue operations. Students will become familiar with the procedures, equipment, and technologies used by current fire departments. This course challenges students academically, mentally, and physically and meets the standards of the National Fire Protection Association (NFPA) 1001-2013 leading to Firefighting 1 certification. NOTE: Students seeking NFPA 1001-2013 Firefighter 1 certification will be required to make up classroom hours missed. Additional requirements, including CPR, HAZMAT operations, and Mayday Awareness are stipulated for those students seeking NFPA 1001-2013 Firefighter 1 certification. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Firefighting 2 – Fire Academy

Academy course enrollment must be approved by the appropriate Academy. - Parents and students are required to attend an orientation session with the instructor prior to the beginning of the course.

(870627) Grade: 12 Credit: two
Prerequisite: Firefighting I; Students MUST be 16 years old (40-1.79.1 Code of Virginia) by the first day of the course. Enrollment requires parental consent. Students are required to meet a minimum standard on the CPAT prior to starting the course.

This is part two (spring semester) of a two-part, full-year course. This course builds upon the professional knowledge gained and skills taught in Firefighting I. Students respond to simulated hazardous-material incidents and conduct rescue operations, including vehicle extrication. Students react to multi-faceted situations (e.g., caused by simulated terrorism, accidents, and natural disasters) by managing resources such as medivac helicopters, emergency medical personnel, technical rescue teams, and community-based organizations. Students will become familiar with the procedures, equipment, and technologies used by current fire departments. This course challenges students academically, mentally, and physically and meets the standards of National Fire Protection Association (NFPA) leading to firefighting II certification. NOTE: Students seeking NFPA 1001-2013 Firefighter II certification will be required to make up classroom hours missed. Additional requirements, including CPR, HAZMAT operations, and Mayday Awareness are stipulated for those students seeking NFPA 1001-2013 Firefighter II certification. HOSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

CTE MARKETING

Marketing Exploration (811000)
 Grade: 9, 10 Credit: one

Explore the world of marketing to understand its importance in today's society. Students will develop skills related to interpersonal communication, self-presentation, economics, marketing, sales, employability, career discovery, promotion, and ethical decision-making—all essential skills in any career. 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 (HQWBL) 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.

Marketing 1 (812000)
 Grade: 9, 10, 11, 12 Credit: one

Students will learn how products are developed, branded, and sold. They will analyze industry trends and gain hands-on experience in the marketing of goods, services, and ideas and be prepared for success in postsecondary education and employment. Topics include professionalism in the workplace, product planning and positioning, promotion, pricing, selling, economic issues, and changes in the marketplace. 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 (HQWBL) 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.

Strategic Marketing (813000)
 Grade: 11, 12 Credit: one
Prerequisite: Mrktg 1 (812000), Fashion Mrktg 1 (814000), Sports/Entertain Mrktg (817500), or approval of instructor

In this course, students learn to leverage marketing activities to best differentiate themselves and their businesses. They will participate in supervisory and management activities focusing on the marketing mix, purchasing, financing, human resources, global marketing, pricing, distribution, selling, operations research, and promotion. Students will prepare for marketing careers and postsecondary education, continuing to enhance self-presentation, communication, and leadership skills. 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 (HQWBL) will provide experiential learning opportunities related to students' career goals and/or interests, integrated with instruction, and performed in partnership with local businesses/organizations.

Fashion Marketing 2 – Fairfax Academy **Academy course enrollment must be approved by the appropriate Academy.**

(814523) Grade: 11, 12 Credit: one
Prerequisite: Marketing 1 (812000) or Fashion Marketing 1 (814000)

This specialized program enables students to learn business organization as well as operation skills and techniques in a realistic business setting. Classes are held in Fair Oaks shopping mall. Traditional classroom instruction in marketing, merchandising, fashion and management is enhanced by the opportunity for students to meet and work with professionals in the mall businesses. Students will develop critical-thinking and decision-making skills through the application of marketing principles to small and large businesses, nonprofit organizations, service industries, and other institutions or associations that make products or provide services. Students attend their base schools for regular classes and then travel to Fair Oaks shopping mall for both classroom instruction and related on-the-job training. The Holiday Gift Wrap Center and Prom Dress Shop offer additional opportunities for real-life entrepreneurial experiences. Due to the unique structure of this program, excellent attendance is mandatory. 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 (HQWBL) 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.

Sports Enter Marketing (817500)
 Grade: 10, 11, 12 Credit: one

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. 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 (HQWBL) 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.

Sports Enter Management (817700)
Grade: 11, 12 Credit: one
Prerequisite: Sports and Entertainment Marketing (817500)

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. 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 (HQWBL) 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.

Marketing Management – Fair Oaks Mall Academy course enrollment must be approved by the appropriate Academy.

(813223) Grade: 11, 12 Credit: one

This specialized program enables students to learn business organization as well as operation skills and techniques in a realistic business setting. Classes are held in Fair Oaks shopping mall. Traditional classroom instruction in marketing, merchandising, fashion and management is enhanced by the opportunity for students to meet and work with professionals in the mall businesses. Students will develop critical-thinking and decision-making skills through the application of marketing principles to small and large businesses, nonprofit organizations, service industries, and other institutions or associations that make products or provide services. Students attend their base schools for regular classes and then travel to Fair Oaks shopping mall for both classroom instruction and related on-the-job training. The Holiday Gift Wrap Center and Prom Dress Shop offer additional opportunities for real-life entrepreneurial experiences. Due to the unique structure of this program, excellent attendance is mandatory. 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 (HQWBL) 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.

Social Media Marketing – Fairfax Acad Academy course enrollment must be approved by the appropriate Academy.

(812526) Grade: 10, 11, 12 Credit: one

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. 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 (HQWBL) 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.

Entrepreneurship 1 HN (909300)
Grade: 11, 12 Credit: one / weighted +0.5

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. 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 (HQWBL) is included in this course, and 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.

Entrepreneurship 1 DE (9093DE)
Grade: 11, 12 Credit: one / weighted +1.0

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. 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 (HQWBL) is included in this course, and 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.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment

Entrepreneurship 2 HN (909400)
Grade: 12 Credit: one / weighted +0.5
Prerequisite: Entrepreneurship 1 (909300/909326)

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 development of a business plan and small business management. Students will establish, market, and maintain a business. 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 (HQWBL) is included in this course, and 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.

Entrepreneurship 2 DE (9094DE)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: Entrepreneurship 1 (909300/909326)

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 development of a business plan and small business management. Students will establish, market, and maintain a business. 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 (HQWBL) is included in this course, and 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.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment

CTE TECHNOLOGY AND ENGINEERING EDUCATION

STEM Design (840300)
Grade: 9, 10, 11, 12 Credit: one

STEM Design is a high school foundation class in Technology and Engineering Education. The course provides balance between basic applied engineering using the newest technologies, and skill building in Computer Aided Design (CAD). Students will be exposed to authentic problems which will assist in the development of personal skills in visualization, design, construction, digital development and problem solving principles. Students will also implement standards and concepts from mathematics and science to Mechanical Motion,

Energy, Electronics, and Transportation Systems. TSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

STEM Engineering HN (845060)
Grade: 10, 11, 12 Credit: one / weighted +0.5

Prerequisite: STEM Design (840300) required, STEM Pre-Engineering (840500) recommended or teacher approval

Corequisite: Algebra II or teacher approval

For students interested in engineering, this course builds a solid foundation to move forward in the Science, Technology, Engineering and Math (STEM) curriculum. Students are introduced conceptually and analytically to the primary concepts in the four classic engineering disciplines civil, mechanical, electrical, and aerospace engineering. Students will explore and develop college level engineering problems in these areas while working as real world collaborative teams. By applying STEM concepts to design problems students will dramatically improve their use of mathematics (Trigonometry and Algebra II), computer simulations, scientific analysis, oral and technical writing skills during this course. This course provides for orientation to the careers and challenges of engineering. Students are actively involved with high-tech devices, engineering graphics, and mathematics/scientific principles through problem-solving and critical thinking experiences. TSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

STEM AdvEngineering HN (845360)
Grade: 11, 12 Credit: one / weighted +0.5

Prerequisite: STEM Engineering (845060) required or teacher approval

This advanced level engineering course emphasizes student knowledge and application of engineering problem-solving through research and development concepts. It focuses on current and emerging technologies. Students learn to work in collaborative engineering teams and solve group design and projects. Students are challenged to solve problems using design, mathematics, computer simulations, scientific analysis, and oral and written skills. Engineering is studied with a focus on modeling, systems, optimization, technology-society interaction, design, and engineering ethics. Projects may be models, systems, or products that creatively solve an engineering problem. This course is the capstone course in the engineering sequence to prepare students for college or engineering careers. TSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Engineer Sys 1 HN – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(842525)
Grade: 11, 12 Credit: one / weighted +0.5
Prerequisite: STEM Engineering (845060) recommended or teacher approval

This advanced high school course is based on an introductory, college-level engineering course using a standardized curriculum that prepares students to develop an engineering mindset and begin to “think like an engineer”. Students learn how engineering principles, skills, and practices affect everything from shoes, to music, to water security while they utilize the Engineering Design Process to discover how engineering affects society. Students utilize 3D printing, laser engraving, and power tools to design and build prototypes that focus on solving NAE (National Academy of Engineering) Grand Challenges for Engineering along with opportunities to design personal or community-oriented projects.

This course requires a student materials fee as listed in FCPS Notice 5922.

Engineer Sys 2 HN – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(842626) Grade: 12 Credit: one / weighted +0.5
Prerequisite: Engineering Systems 1 (842525)

Students develop an in-depth understanding of automation and its applications in manufacturing. Activities center on flexible manufacturing processes and computer integrated manufacturing (CIM). Students work in teams to solve complex interdisciplinary problems that stem from the major systems in automated manufacturing. TSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Robotic Systems 1 HN – Marshall Acad
Academy course enrollment must be approved by the appropriate Academy.

(854725)
Grade: 10, 11, 12 Credit: one / weighted +0.5
Prerequisite: STEM Engineering (845060) recommended or teacher approval

Robotic systems 1 teaches skills in engineering problem solving, while students employ rapid prototyping technologies; such as CNC, laser cutting, and additive manufacturing to design and construct a variety of robotic and semi-automated devices using Fanuc, VEX, Arduino, and AndyMark technologies

combined with custom parts and electronics. Robotic Systems 1 and 2 make up a CTE completer.

This course requires a student materials fee as listed in FCPS Notice 5922.

Robotic Systems 2 HN – Marshall Acad
Academy course enrollment must be approved by the appropriate Academy.

(855825)
Grade: 11, 12 Credit: one / weighted +0.5
Prerequisite: Robotic Systems 1 (854725)

Robotic Systems 2 places a special emphasis on design and control while students explore the building blocks of industrial automation and robotic systems. Students prototype various robots modeled around student competitions and commercial or industrial applications. Terminology, career opportunities, and safety with automated systems are covered throughout both courses. Robotic Systems 1 and 2 make up a CTE completer.

This course requires a student materials fee as listed in FCPS Notice 5922.

Intro Tech Drawing – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(843599) Grade: 9, 10, 11, 12 Credit: one

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.

Engineering Drawing – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(843699) Grade: 10, 11, 12 Credit: one
Prerequisite: STEM Design (843500) or Introduction to Technical Drawing (843599)

Students gain an understanding of technical drawing careers in modern industry. The course includes engineering-drafting problems, use of Computer-Assisted Drafting (CAD) equipment, and drafting skills and techniques. Students use Autodesk Inventor software and specifications along with other resource materials. Students interested in engineering or related careers will benefit from this course. 3D parametric modeling is introduced. Industry certification in Autodesk Inventor may be available.

Architect Drawing – Online Campus

Online Campus course enrollment must be approved by the Online Campus.

(843799) Grade: 10, 11, 12 Credit: one
Prerequisite: STEM Design (843500) or Introduction to Technical Drawing (843599)

Students study the history of architecture, examine various construction techniques, use Computer-Assisted Drafting (CAD) equipment, and design elements of living and industrial structures. They develop working drawings and specifications as well as a scale model. Students interested in architecture or related careers will benefit from this course.

Advanced CAD – Online Campus

Online Campus course enrollment must be approved by the Online Campus.

(843899) Grade: 11, 12 Credit: one
Prerequisite: Engineering Drawing (843600 or 843699) or Architectural Drawing (843700 or 843799)

Students use a graphic language for product design and technical illustration. They increase their understanding of drawing techniques learned in the prerequisite courses. Students will 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 3-D solid models using Computer-Assisted Drafting (CAD), construct physical models, and create multimedia presentations of finished designs. Students will complete a work portfolio based on a chosen graphic project using advanced software such as Autodesk Inventor, Revit and 3D Studio Max.

Engineer Math – Chantilly Academy

Academy course enrollment must be approved by the appropriate Academy.

(316326) Grade: 10, 11, 12 Credit: one
Prerequisite: Algebra 2
Corequisite: Precalculus with Trigonometry

The mathematics topics taught in this course are motivated through direct applications in engineering. Engineering Mathematics addresses salient mathematics topics actually used in the primary core engineering college courses; Basic Algebraic Manipulations; Trigonometry; 2-D Vectors; Complex Numbers; Sinusoids and Harmonic Signals; Systems of Equations and Matrices; Basics of Differentiation; Basics of Integration; Linear Differential Equations with Constant Coefficients. Course material is taught through hands-on physical experiments in the classroom and laboratory, and is thoroughly integrated with the engineering analysis software MATLAB. Students learn the interconnection between classroom theory, laboratory measurement and numerical representation of their engineering results. TSA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

CTE

TRADE AND INDUSTRIAL

Apprenticeship (984126)

Academy course enrollment must be approved by the appropriate Academy.

Grade: 10, 11, 12 Credit: one

This course is taken in conjunction with a content course and is designed to allow students to participate in the youth apprenticeship program. For more information on applicable companion courses see

<https://www.doli.virginia.gov/apprenticeship/youth-apprenticeship/>

Students must have instructor permission and an employer willing to sponsor the apprenticeship with the Virginia Department of Labor Youth Apprenticeship program. Students must have transportation to job the site. Students should achieve a minimum of 280 hours for the school year (70 hours per quarter).

Auto Collision Svc 1 – Edison Academy

Academy course enrollment must be approved by the appropriate Academy.

(867626) Grade: 10, 11, 12 Credit: one

Students are introduced to skill sets derived from industry standards in the auto body repair and restoration industry. The curriculum and laboratory activities are defined by I-CAR and the Automotive Service Excellence (ASE) and include panel repairs, painting, frame and unibody construction, steering, suspension, detailing, and welding. In addition, students are exposed to the theoretical and practical aspects of this career. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Auto Collision Svc 2 – Edison Academy

Academy course enrollment must be approved by the appropriate Academy.

(867727) Grade: 11, 12 Credit: two

Prerequisite: Auto Collision Service 1 (867626)

Students will refine existing skills and develop specific skills necessary to repair late-model damaged vehicles to their original condition. The curriculum and laboratory practices are defined by I-CAR and Automotive Service Excellence (ASE) and include the following: refinishing, metalworking, welding, frame-strengthening systems, unibody measuring principles, structural repair, steering, suspension, mechanical, and electrical repairs. As an option, many students may have an opportunity to participate in local internship experiences. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed

in FCPS Notice 5922.

Auto Collision Svc 3 – Edison Academy

Academy course enrollment must be approved by the appropriate Academy.

(867827) Grade: 12 Credit: two

Prerequisite: Automotive Collision Service 2 (867727)

Students participating in Automotive Collision 3 will strive towards independence and quality workmanship as they become more proficient in their individual skill set to repair and/or refinish minor late-model damaged vehicles. The curriculum and laboratory practices defined by 1-CAR and Automotive Service Excellence (ASE) include the following: refinishing, metalworking, welding, frame-strengthening systems, unibody measuring principles, structural repair, steering, suspension, mechanical, and electrical repairs. As an option, many students may have an opportunity to participate in local internship experiences. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Auto Technology 1 – Marshall Academy

Academy course enrollment must be approved by the appropriate Academy.

(850626) Grade: 10, 11, 12 Credit: one

Students will study and define the eight major systems of the automobile, related tools and equipment, and the automotive industry. An emphasis will be placed on diagnosing systems, developing troubleshooting skills, and the safe use of laboratory equipment. Curriculum is developed from Automotive Service Excellence (ASE) task lists. Major topics include engine performance, brakes, electrical and electronic systems, and suspension and steering systems. In addition, students will be tested on ASE criteria. As an option, students may have an opportunity to participate in local internship experiences. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Auto Technology 1 DE – Marshall Acad

Academy course enrollment must be approved by the appropriate Academy.

(8506DU) Grade: 10, 11, 12 Credit: one / weighted +1.0

Students will study and define the eight major systems of the automobile, related tools and equipment, and the automotive industry. An emphasis will be placed on diagnosing systems, developing troubleshooting skills, and the safe use of laboratory equipment. Curriculum is developed from Automotive Service Excellence (ASE) task lists. Major

topics include engine performance, brakes, electrical and electronic systems, and suspension and steering systems. In addition, students will be tested on ASE criteria. As an option, students may have an opportunity to participate in local internship experiences. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment.

This course requires a student materials fee as listed in FCPS Notice 5922.

Auto Technology 2 – Marshall Academy Academy course enrollment must be approved by the appropriate Academy.

(850727) Grade: 11, 12 Credit: two
Prerequisite: Automotive Technology 1 (850626)

Students will study and define the eight major systems of the automobile, related tools and equipment, and the automotive industry. An emphasis will be placed on diagnosing systems, developing troubleshooting skills, and the safe use of laboratory equipment. Curriculum is developed from Automotive Service Excellence (ASE) task lists. Major topics include engine performance, brakes, electrical and electronic systems, and suspension and steering systems. In addition, students will be tested on ASE criteria. High-quality work-based learning (HQWBL) is included in this course, and 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. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Auto Technology 2 DE – Marshall Acad Academy course enrollment must be approved by the appropriate Academy.

(8507DE) Grade: 11, 12 Credit: two / weighted +1.0
Prerequisite: Automotive Technology 1 (850626)

Students will study and define the eight major systems of the automobile, related tools and equipment, and the automotive industry. An emphasis will be placed on diagnosing systems, developing troubleshooting skills, and the safe use of laboratory equipment. Curriculum is developed from the Automotive Service Excellence (ASE) task lists. Major topics include engine performance, brakes, electrical and electronic systems, and suspension and steering systems. In addition, students will be tested on ASE criteria. High-quality work-based learning (HQWBL) is included in this course, and 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. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment.

This course requires a student materials fee as listed in FCPS Notice 5922.

Auto Technology 3 – Marshall Academy Academy course enrollment must be approved by the appropriate Academy.

(850827) Grade: 12 Credit: two
Prerequisite: Automotive Technology 2 (850727)

Students will diagnose, troubleshoot, and install components and parts, while focusing on the standards established by the Automotive Service Excellence (ASE). Opportunities will be provided to enhance skills and competencies. An emphasis is placed on problem-solving issues related to technological enhancements in the automotive industry. In addition, students will be tested on NATEF criteria. High-quality work-based learning (HQWBL) is included in this course, and 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. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events. This course requires a student materials fee as listed in FCPS Notice 5922.

Auto Technology 3 DE – Marshall Acad Academy course enrollment must be approved by the appropriate Academy.

(8508DE) Grade: 12 Credit: two / weighted +1.0
Prerequisite: Automotive Technology 2

Students will diagnose, troubleshoot, and install components and parts, while focusing on the standards established by the Automotive Service Excellence (ASE). Opportunities will be provided to enhance skills and competencies. An emphasis is placed on problem-solving issues related to technological enhancements in the automotive industry. In addition, students will be tested on NATEF criteria. High-quality work-based learning (HQWBL) is included in this course, and 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. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

To enroll in this course, students must meet the college admission criteria. For more information

about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment.

This course requires a student materials fee as listed in FCPS Notice 5922.

Carpentry 1 – Chantilly Academy Academy course enrollment must be approved by the appropriate Academy.

(860126) Grade: 10, 11, 12 Credit: one

Students will have an opportunity to study and learn about a \$700 billion industry providing a variety of employment opportunities. An emphasis will be focused on construction safety, OSHA regulations, mathematics applications, and craft knowledge. In addition to a variety of hands-on experiences, students will be introduced to electricity, framing, plumbing, millwork, and problem solving activities related to the construction industry. Students will become proficient in identifying types of residential construction components to form foundations and frame walls, floors, ceilings, roofs, doors, and windows. Curriculum is developed by the National Association of Home Builders (NAHB). Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Carpentry 2 – Chantilly Academy Academy course enrollment must be approved by the appropriate Academy.

(860227) Grade: 11, 12 Credit: two
Prerequisite: Carpentry 1 (860126)

Students will receive advanced instruction and experiences in the areas of layout and design, framing, estimating, purchasing, planning, and installing. Topics will range from residential through commercial construction. An emphasis will be placed on entrepreneurship and construction site management using curriculum developed by the National Association of Home Builders (NAHB). Students will become proficient in assembling and installing various types of residential construction components that are current with industry standards, including rigging and job-estimating procedures, forming foundations, framing floors, walls, ceilings, roofs, trusses, roofing materials, stairs, exterior doors and windows, decks, and porches. High-quality work-based learning (HQWBL) is included in this course, and 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. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Carpentry 3 – Chantilly Academy

Academy course enrollment must be approved by the appropriate Academy.

(860327) Grade: 12 Credit: two
Prerequisite: Carpentry 2 (860227)

Students will receive advanced instruction and experiences in the areas of layout and design, framing, estimating, purchasing, planning, installing, and project management. Topics will range from residential through commercial construction. An emphasis will be placed on entrepreneurship and construction site management using curriculum developed by the National Association of Home Builders (NAHB). Student internship experiences are an option for this course. High-quality work-based learning (HQWBL) is included in this course, and 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. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Construction Tech 1 – Edison Academy

Academy course enrollment must be approved by the appropriate Academy. - Parents and students are required to attend an orientation session at the job site with the instructor prior to being accepted into the course.

(860125) Grade: 10, 11, 12 Credit: two

Through a partnership with the Foundation For Applied Technical Education, Inc. (FATE), students have an opportunity to build a single-family home in Springfield, Virginia. This specialized course curriculum is developed by the National Association of Home Builders (NAHB). All aspects of new home construction will be addressed during the course. Students will work directly on concrete installation, framing, ceramic tile, kitchen installation, bathroom installations, hardwood floors, electrical, plumbing, HVAC, landscape, and other areas of new home construction. Theoretical and physical aspects of the construction industry are explored in order for students to establish career goals in the industry. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events. High-quality work-based learning (HQWBL) is included in this course, and 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.

This course requires a student materials fee as listed in FCPS Notice 5922.

Construction Tech 1 – Edison Academy

Academy course enrollment must be approved by the appropriate Academy. - Parents and students are required to attend an orientation session at the job site with the instructor prior to being accepted into the course.

(860129) Grade: 10, 11, 12 Credit: one

Through a partnership with the Foundation for Applied Technical Education, Inc. (FATE), students have an opportunity to build a single-family home in Springfield, Virginia. This specialized course curriculum is developed by the National Association of Home Builders (NAHB). All aspects of new home construction will be addressed during the course. Students will work directly on concrete installation, framing, ceramic tile, kitchen installation, bathroom installations, hardwood floors, electrical, plumbing, HVAC, landscape, and other areas of new home construction. Theoretical and physical aspects of the construction industry are explored in order for students to establish career goals in the industry. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events. High-quality work-based learning (HQWBL) is included in this course, and 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.

This course requires a student materials fee as listed in FCPS Notice 5922.

Construction Tech 2 – Edison Academy

Academy course enrollment must be approved by the appropriate Academy. - Parents and students are required to attend an orientation session at the job site with the instructor prior to being accepted into the course.

(860225) Grade: 11, 12 Credit: two
Prerequisite: Construction Technologies 1 (860126)

Through a partnership with the Foundation for Applied Technical Education, Inc. (FATE), students have an opportunity to build a single-family home in Springfield, Virginia. This specialized course curriculum is developed by the National Association of Home Builders (NAHB). All aspects of new home construction will be addressed during the course. Students will work directly on concrete installation, framing, ceramic tile, kitchen installation, bathroom installations, hardwood floors, electrical, plumbing, HVAC, landscape, and other areas of new home construction. Theoretical and physical aspects of the construction industry are explored in order for students to establish career goals in the industry. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events. High-quality work-based learning (HQWBL) is included in this course, and 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.

This course requires a student materials fee as listed in FCPS Notice 5922.

Cosmetology 1 – Marshall Academy

Academy course enrollment must be approved by the appropriate Academy.

(874528) Grade: 10, 11, 12 Credit: three

In this introductory course, students study hair, skin, and nails and their related care. Students are grounded in theory as they prepare to practice procedures in a clinical lab setting or classroom, using manikins 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. Students learn about the characteristics of hair, product selection, and basic elements that determine hair growth, health, and appearance. In addition to up-to-date skills in hair styling and cutting, permanent waving, coloring, scalp and facial treatment, and manicuring, students will begin licensure preparation as prescribed by the Virginia Board of Cosmetology.

This course requires a student materials fee as listed in FCPS Notice 5922.

Cosmetology 2 – Marshall Academy

Academy course enrollment must be approved by the appropriate Academy.

(874628) Grade: 11, 12 Credit: three
Prerequisite: Cosmetology 1 (852727)

In this continuing course, students build on their theoretical foundation of general sciences and practices in cosmetology to increase proficiency in haircutting and styling 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 use a laboratory setting for the study of skin, hair, nails and cosmetic chemistry. Through laboratory experiences, students will develop advanced skills and knowledge in all phases of the salon industry. Students complete the required cosmetology competencies determined by the Virginia Board of Cosmetology in preparation for the Virginia Cosmetology State Board Exam to qualify as a licensed cosmetologist. Students in this course will have the opportunity to take the Virginia Cosmetology State Board Exam provided they have a social security number or a control number issued by the Virginia Department of Motor Vehicles as required by the Virginia Board of Cosmetology. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events. Industry certification may be available as part of this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Criminal Justice 1 – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(870226) Grade: 10, 11, 12 Credit: one

This course is designed for students who are considering a career in criminal justice. The course prepares students for career opportunities within the criminal justice system as well as entrance into institutions of higher learning. Specific areas of training will be provided in criminal law and investigation, security training, communications, emergency response, crimes, search and seizures, arrests, crime prevention, court procedure, and police operations. The program is structured to give students a strong academic background with the skills and knowledge necessary to meet the needs of a career in any of the cited fields. In addition, experts from various agencies provide in-depth information and experiences. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Criminal Justice 2 – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(870327) Grade: 11, 12 Credit: two
Prerequisite: Criminal Justice 1 (870226)

This course is an in-depth study of crime in America, United States' courts in action, and law enforcement efforts to deal with crime. The course will look into victimization, due process, and Constitutional laws affecting law enforcement as well as a review of sentencing offenders, parole, prison rehabilitation, and corrections of the 1990s. Included will be a view of other employment careers in private and mechanical security systems as well as local, state, and federal law enforcement. A major component of level 2 will include the work-experience component, i.e., shadowing, mentorship, etc. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Elec Const & Eng 1 – Edison Academy
Academy course enrollment must be approved by the appropriate Academy.

(853326) Grade: 10, 11, 12 Credit: one

Laboratory work and academic studies include AC/DC circuit analysis, designing and construction switching circuits, fixture specifications and installations, computing and fabricating residential electrical services, and other wiring exercises as required by residential wiring systems. Theory and the national electric code are taught as they apply to the lesson topic. Students learn to install, relocate, troubleshoot, and repair copper twisted pair network

cabling. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Elec Const & Eng 2 – Edison Academy
Academy course enrollment must be approved by the appropriate Academy.

(853427) Grade: 11, 12 Credit: two
Prerequisite: Electrical Construction and Engineering 1 (853326)

Further study of electrical wiring and power distribution techniques is offered, including direct- and alternating-current machines, such as motors and generators, and magnetic controls and transformers in both single- and two- or three-phase systems. National Electrical Codes, as well as state and power company policies pertaining to electrical power distribution, are studied. Major appliance repair is also taught. Student internship experiences are an option for this course. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Elec Const & Eng 3 – Edison Academy
Academy course enrollment must be approved by the appropriate Academy.

(853527) Grade: 12 Credit: two
Prerequisite: Electrical Construction and Engineering 2 (853427)

Students will further their electrical studies to learn about layout, planning, and installation of wiring systems in commercial facilities. An introduction to programmable logic controls (PLC) and its associated applications will be provided with the most current Allen Bradley controls. Students will also get the chance to lead other students in installing wiring in a residential house. Upon completion of this course students should be able to install and wire all aspects of a residential house to include ordering and managing materials and equipment. Students should also have a knowledge of PLCs, solar power and other related electrical specialty fields. High-quality work-based learning (HQWBL) is included in this course, and 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. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Heating & AC 1 DE – Edison Academy
Academy course enrollment must be approved by the appropriate Academy.

(8503DE) Grade: 10, 11, 12 Credit: one / weighted +1.0

In the first year of the heating, ventilation and air conditioning (HVAC) program students will learn to use a variety of hand tools including wrenches, pliers, screwdrivers, hammers as well as specially tools of the HVAC trade which include digital multimeters, thermometers, scales, vacuum pumps and refrigerant recovery equipment. Students will complete projects utilizing copper tubing, PVC and black iron pipe with ACR tubing cutters, flaring, swaging and threading tools. Students will also master the use of various types of torches for soldering and brazing and build a basic mechanical refrigeration cycle. Students will also learn the concepts of electricity and complete a series of electrical projects and also be introduced to the sheet metal arts. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment.

This course requires a student materials fee as listed in FCPS Notice 5922.

Heating & AC 1 – Edison Academy
Academy course enrollment must be approved by the appropriate Academy.

(850326) Grade: 10, 11, 12 Credit: one

In the first year of the heating, ventilation and air conditioning (HVAC) program students will learn to use a variety of hand tools including wrenches, pliers, screwdrivers, hammers as well as specially tools of the HVAC trade which include digital multimeters, thermometers, scales, vacuum pumps and refrigerant recovery equipment. Students will complete projects utilizing copper tubing, PVC and black iron pipe with ACR tubing cutters, flaring, swaging and threading tools. Students will also master the use of various types of torches for soldering and brazing and build a basic mechanical refrigeration cycle. Students will also learn the concepts of electricity and complete a series of electrical projects and also be introduced to the sheet metal arts. Internship is available. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Heating & AC 2 – Edison Academy

Academy course enrollment must be approved by the appropriate Academy.

(850427) Grade: 11, 12 Credit: two
Prerequisite: Heating, Ventilation, Air Conditioning, and Refrigeration 1 (850326)

Students continue their education of the HVAC program in the second year which focuses on the installation, maintenance, troubleshooting service and repair of a central air conditioning system as well as a gas furnace, oil furnace and heat pump systems. Students will also learn about weatherization and energy efficiency of HVAC equipment and ductwork as well as understanding various types of motors used in HVAC equipment. During the second year focus is also given to the Environmental Protection Agency's Section 608 refrigerant handling certification with the goal of passing the Core section plus one or more types in either small appliances, high or low pressure systems earning them an industry credential. Student internship experiences are an option for this course. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Heating & AC 2 DE – Edison Academy

Academy course enrollment must be approved by the appropriate Academy.

(8504DE) Grade: 11, 12 Credit: two / weighted +1.0
Prerequisite: Heating, Ventilation, Air Conditioning, and Refrigeration 1 (8503DE)

Students continue their education of the HVAC program in the second year which focuses on the installation, maintenance, troubleshooting service and repair of a central air conditioning system as well as a gas furnace, oil furnace and heat pump systems. Students will also learn about weatherization and energy efficiency of HVAC equipment and ductwork as well as understanding various types of motors used in HVAC equipment. During the second year focus is also given to the Environmental Protection Agency's Section 608 refrigerant handling certification with the goal of passing the Core section plus one or more types in either small appliances, high or low pressure systems earning them an industry credential. Student internship experiences are an option for this course. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment.

This course requires a student materials fee as listed in FCPS Notice 5922.

Prof Photo Studio 1 – Fairfax Academy

Academy course enrollment must be approved by the appropriate Academy.

(860726) Grade: 11, 12 Credit: one

In a state-of-the-art digital photography lab/studio, students use the latest digital cameras on both the PC and Mac platforms. Students will photograph people, places, and objects and will prepare these images with the intent of professional publication using software such as Adobe Photoshop, Illustrator, InDesign, and Acrobat. The course allows the students to see dynamic results in real time and to print their work on professional level color printers. Topics include image composition, digital editing, studio and location lighting, file formats, file maintenance and storage, and print production. Students will relate these skills to the current business and art practices of the modern commercial photographic industry. In addition, students will develop personal portfolios to aid in entry into the marketplace or advanced photography educational program. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Prof Photo Studio 2 – Fairfax Academy

Academy course enrollment must be approved by the appropriate Academy.

(860827) Grade: 11, 12 Credit: two
Prerequisite: Professional Photography Studio 1 (860726). Portfolio review may be required.

This course provides students with experience needed to begin a career in commercial photography as well as an in-depth view of digital photography and related industries. Students will develop studio lighting techniques and composition skills in this project-oriented course. Creativity, imagination, and innovation are qualities that will be exercised by using high-end digital cameras and sophisticated imagery and production software such as Adobe Photoshop, Adobe Illustrator, InDesign, and Acrobat. Students will relate these skills to the current practices of art and business in the modern commercial photographic industry. A component of this course is dedicated to learning how to open and maintain a professional photography studio. Students will work independently, as well as collaboratively, toward the completion of class projects. Students will develop personal portfolios to aid in entry into the marketplace or advanced photography educational program. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

TV Media Production 1 – Fairfax Academy

Academy course enrollment must be approved by the appropriate Academy.

(868826) Grade: 10, 11, 12 Credit: one

This curriculum is designed to train students for a career in, or entry into a collegiate program involving the television and film production industries. Film, Video, and Multimedia terminology, technique, and theory will be discussed. State-of-the-art, video equipment is used by the students in this class. Students will learn to operate professional video cameras and field equipment for productions outside of the classroom, and professional studio cameras, audio equipment, special effect generators, and character generators for use in the fully outfitted studio. With parental permission, equipment may be checked out and used for on-location shoots. Students learn post-production skills on cutting edge non-linear editing equipment, and finalize their projects to DVD. Toward the end of the first year, students may be presented with internship and professional work opportunities. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

TV Media Production 2 – Fairfax Academy

Academy course enrollment must be approved by the appropriate Academy.

(868927) Grade: 11, 12 Credit: two
Prerequisite: TV Media Prod 1 (868826)

Students continue to build a foundation of knowledge and skills through hands-on experience operating professional television production equipment in the field and studio as described in Television Production 1. Students are expected to take advantage of numerous internship opportunities that are available for 2nd year students. New learning opportunities include the ability to specialize in any of several dozen areas of interest with regards to pre-production, production, and post-production. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

TV Media Production 3 – Fairfax Academy

Academy course enrollment must be approved by the appropriate Academy.

(869027) Grade: 12 Credit: two
Prerequisite: TV Media Prod 2 (868927)

Students will demonstrate mastery of media production knowledge and skills. They will function as media producers by creating original productions developed and marketed toward target audiences. Students will assemble a professional digital portfolio to advance postsecondary and career goals. They will

investigate the dynamic media production industry and identify opportunities for real-world experiences (e.g., internships, job shadowing). Students will research postsecondary opportunities and formulate strategies for both college and career success. Skills USA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

This course requires a student materials fee as listed in FCPS Notice 5922.

Welding I (867226)
Academy course enrollment must be approved by the appropriate Academy.

Grade: 11, 12 Credit: one

Welding 2 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. 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 (HQWBL) 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.

This course requires a student materials fee as listed in FCPS Notice 5922.

Welding 2 – Edison Academy (867327)
Academy course enrollment must be approved by the appropriate Academy.

Grade: 12 Credit: two
Prerequisite: Welding 1

Welding 2 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. 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 (HQWBL) 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.

This course requires a student materials fee as listed in FCPS Notice 5922.

ENGLISH

English 9 (113000)
Grade: 9 Credit: one
Prerequisite: English 8

Students read and analyze a variety of literary and nonfiction texts, exploring the characteristics of different forms and the techniques authors use to achieve their intended purpose. In addition to a study of print texts, students evaluate, analyze, and create media messages to develop media literacy. Language study extends students' vocabulary through learning about connotations, denotations, word origins, and structures in authentic texts. Students apply their understanding of grammar, capitalization, punctuation, spelling, sentence structure, and paragraphing to varied and frequent writing assignments. Through narrative, expository, and persuasive writings, students build on their understanding of writing as a process of prewriting, drafting, revising, and publishing. In the research process, students find, evaluate, and select appropriate sources to create research products. They also develop communication skills by evaluating presentations and creating and delivering their own, both collaboratively and individually.

English 9 – Online Campus (113099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 9 Credit: one
Prerequisite: English 8

Students read and analyze a variety of literary and nonfiction texts, exploring the characteristics of different forms and the techniques authors use to achieve their intended purpose. In addition to a study of print texts, students evaluate, analyze, and create media messages to develop media literacy. Language study extends students' vocabulary through learning about connotations, denotations, word origins, and structures in authentic texts. Students apply their understanding of grammar, capitalization, punctuation, spelling, sentence structure, and paragraphing to varied and frequent writing assignments. Through narrative, expository, and persuasive writings, students build on their understanding of writing as a process of prewriting, drafting, revising, and publishing. In the research process, students find, evaluate, and select appropriate sources to create research products. They also develop communication skills by evaluating presentations and creating and delivering their own, both collaboratively and individually.

English 9 – ELP Level 1-3 (573090)
Grade: 9 Credit: one

This course is designed to develop content understanding and English language proficiency simultaneously. Students read and analyze a variety of linguistically appropriate literary and nonfiction texts, exploring the characteristics of different forms and the techniques authors use to achieve their intended purpose. Language study extends students' vocabulary through learning about connotations,

denotations, word origins, and structures. Students apply their understanding of grammar, capitalization, punctuation, spelling, sentence structure, and paragraphing to varied and frequent writing assignments. Through narrative, expository, and persuasive writings, students build on their understanding of writing as a process of prewriting, drafting, revising, and publishing. In the research process, students find, evaluate, and select appropriate sources to access information to create a research product. They also develop communication skills through listening to and practicing oral presentations. This course is aligned to the WIDA English language development standards and the English 9 Standards of Learning.

English 9 HN (113036)
Grade: 9 Credit: one / weighted +0.5
Prerequisite: English 8

Students extend their language skills through deep reading and purposeful written and oral communication. Students read, analyze, and compare a variety of literary and nonfiction texts, exploring the characteristics of different forms and the purposeful ways authors use language and techniques to achieve their intended effect. Through the study of authentic texts, students build a sophisticated vocabulary by applying their knowledge of connotations, denotations, word origins, and structures. In addition to a study of print texts, students evaluate, analyze, and create media messages to better understand the impact and role of media in society. Students apply their understanding of language to engage in varied and frequent oral and written assessments including research products. Through these tasks, they engage in personal inquiry to develop their own views on topics and craft writing for specific audiences and purposes.

English 9 HN – Online Campus (113097)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 9 Credit: one / weighted +0.5
Prerequisite: English 8

Students extend their language skills through deep reading and purposeful written and oral communication. Students read, analyze, and compare a variety of literary and nonfiction texts, exploring the characteristics of different forms and the purposeful ways authors use language and techniques to achieve their intended effect. Through the study of authentic texts, students build a sophisticated vocabulary by applying their knowledge of connotations, denotations, word origins, and structures. In addition to a study of print texts, students evaluate, analyze, and create media messages to better understand the impact and role of media in society. Students apply their understanding of language to engage in varied and frequent oral and written assessments including research products. Through these tasks, they engage in personal inquiry to develop their own views on topics and craft writing for specific audiences and purposes.

English 10 (114000)
Grade: 10 Credit: one
Prerequisite: English 9

Students read and analyze a variety of literary and nonfiction texts, comparing and contrasting the techniques authors use in literature of different cultures and eras. In addition to a study of print texts, students examine similarities and differences among a variety of media messages as they develop media literacy. Language study continues to extend students' vocabulary through learning about connotations, denotations, word origins, and structures. Students apply their understanding of grammar, capitalization, punctuation, spelling, sentence structure, and paragraphing to varied and frequent writing assignments. Students expand their understanding of writing as a process and develop their skills in revising to address a specific audience and purpose, with an emphasis on expository and analytical writing. In the research process, students collect, evaluate, organize, and present accurate and valid information to create research products. They also improve communication and collaboration skills through small and large group discussions and presentations.

English 10 – Online Campus (114099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 10 Credit: one
Prerequisite: English 9

Students read and analyze a variety of literary and nonfiction texts, comparing and contrasting the techniques authors use in literature of different cultures and eras. In addition to a study of print texts, students examine similarities and differences among a variety of media messages as they develop media literacy. Language study continues to extend students' vocabulary through learning about connotations, denotations, word origins, and structures. Students apply their understanding of grammar, capitalization, punctuation, spelling, sentence structure, and paragraphing to varied and frequent writing assignments. Students expand their understanding of writing as a process and develop their skills in revising to address a specific audience and purpose, with an emphasis on expository and analytical writing. In the research process, students collect, evaluate, organize, and present accurate and valid information to create research products. They also improve communication and collaboration skills through small and large group discussions and presentations.

English 10 – ELP Level 1-3 (573190)
Grade: 10 Credit: one

This course is designed to develop content understanding and English language proficiency simultaneously. Students read and analyze a variety of literary and nonfiction texts, comparing and contrasting the techniques authors use in literature of different cultures and eras. Language study continues to expand students' vocabulary through learning about connotations, denotations, word

origins, and structures. Students apply their understanding of grammar, capitalization, punctuation, spelling, sentence structure, and paragraphing to varied and frequent writing assignments. With an emphasis on expository and analytical writing, students expand their understanding of writing as a process and develop their skills in revising to address a specific audience and purpose. In the research process, students collect, evaluate, organize, and present accurate and valid information to create a research product. They also improve communication and collaboration skills through small and large group discussions and presentations.

English 10 HN (114036)
Grade: 10 Credit: one / weighted +0.5
Prerequisite: English 9

Students deepen their analysis of literary and nonfiction texts to examine the purposeful ways authors use language and techniques to shape meaning. As they explore a variety of world literature texts, students compare themes among literature, history, and culture. In addition, students explore nonfiction texts to gain insight into topics, themes, and conflicts presented in literature and society. Students also critique media messages, analyzing the strategies used to impact a targeted audience. Through the study of these varied, authentic texts, students build a sophisticated vocabulary by applying their knowledge of connotations, denotations, word origins, and structures. Students apply their understanding of language to the writing process to provide analysis on a variety of topics. They build expertise in collaboration and communication skills as they deepen their understanding of language. They also engage in personal inquiry through the research process and synthesize information from a variety of perspectives to develop research products.

English 10 HN – Online Campus (114097)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 10 Credit: one / weighted +0.5
Prerequisite: English 9

Students deepen their analysis of literary and nonfiction texts to examine the purposeful ways authors use language and techniques to shape meaning. As they explore a variety of world literature texts, students compare themes among literature, history, and culture. In addition, students explore nonfiction texts to gain insight into topics, themes, and conflicts presented in literature and society. Students also critique media messages, analyzing the strategies used to impact a targeted audience. Through the study of these varied, authentic texts, students build a sophisticated vocabulary by applying their knowledge of connotations, denotations, word origins, and structures. Students apply their understanding of language to the writing process to provide analysis on a variety of topics. They build expertise in collaboration and communication skills as they deepen their understanding of language. They also engage in personal inquiry through the research process and synthesize information from a variety of

perspectives to develop research products.

English 11 – Online Campus (115099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 11 Credit: one
Prerequisite: English 10

Students read and analyze a variety of literary and nonfiction texts, comparing various works to analyze themes, make inferences, and draw conclusions. To further their media literacy, students evaluate sources to determine author's purpose and intended effect. Language study extends students' vocabulary through applying understanding of connotations, denotations, word origins, and structures. Students apply their understanding of grammar, capitalization, punctuation, spelling, sentence structure, and paragraphing to varied and frequent writing assignments, with an emphasis on persuasive writing. Students apply their skills and adapt content, vocabulary, voice, and tone to a specific audience and purpose. In the research process, students analyze, evaluate, synthesize, and organize information from a variety of sources to produce research products. They also refine their oral communication skills through gathering and organizing evidence to support a position in informative and persuasive presentations.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

English 11 HN – Online Campus (115097)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 11 Credit: one / weighted +0.5
Prerequisite: English 10

Students build expertise in their analysis of literary and non-literary texts and apply persuasive techniques to craft written and oral communication. Throughout the course, students engage in deep analysis of the ways authors make stylistic choices to create specific effects as they examine the ways literature helps make sense of the American experience. Through the study of nonfiction texts, students analyze patterns of rhetoric and organization to determine how rhetorical devices function to inform and persuade an audience. In addition, students analyze and evaluate media messages to examine how the media strategically influences beliefs and behaviors. Through the study of these varied, authentic texts, students build a sophisticated vocabulary by applying their knowledge of connotations, denotations, word origins, and structures. Students apply their understanding of rhetoric to craft independent arguments in oral presentations and writing that reflect personal communication styles appropriate to the audience and purpose, with an emphasis on persuasion. They also engage in the research process to generate new understandings or solve problems through the synthesis of information on a variety of topics.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

English 11 Comp DE – Online Campus

Online Campus course enrollment must be approved by the Online Campus.

(1150D9)

Grade: 11 Credit: one / weighted +1.0

Prerequisite: English 10

This course provides the opportunity for students to earn credit for English 111 and 112 (College Composition I and II) through Northern Virginia Community College. During the first semester, students enroll in English 111 to deepen their understanding of the writing process and research skills through the creation of effective texts for college and the workplace. During the second semester, students enroll in English 112 to extend these skills with increased emphasis on critical essays, argumentation, and research.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

AP English Lang/Comp – Online Campus

Online Campus course enrollment must be approved by the Online Campus.

(119693)

Grade: 12 Credit: one / weighted +1.0

Prerequisite: English 11

Students study prose analysis and advanced composition at a level equivalent to that of a full-year introductory college course. With an emphasis on nonfiction, students read and analyze texts from a variety of eras and styles to develop skills in recognizing rhetorical context, author's purpose, and the use of the strategies of language. In refining their awareness of language and the writer's craft, students apply purposeful rhetorical strategies to their writing, and compose for a variety of purposes. Completion of this course fulfills the English 11 course requirement.

Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved.

AP English Lang/Comp – Online Campus Online Campus course enrollment must be approved by the Online Campus.

(119695)

Grade: 11 Credit: one / weighted +1.0

Prerequisite: English 10

Students study prose analysis and advanced composition at a level equivalent to that of a full-year introductory college course. With an emphasis on nonfiction, students read and analyze texts from a variety of eras and styles to develop skills in recognizing rhetorical context, author's purpose, and the use of the strategies of language. In refining their awareness of language and the writer's craft, students apply purposeful rhetorical strategies to their writing, and compose for a variety of purposes. Completion of this course fulfills the English 11 course requirement.

Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved. Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

IB Lang & Lit SL 1

(115017)

Grade: 11, 12 Credit: one / weighted +1.0

Prerequisite: English 10

Fall Semester Double-Block Class

This is the first year of a two-year in-depth study of language and literature. Throughout the course, students critically study the use of language, structure, technique, and style in a range of literary and non-literary texts. Students refine their ability to communicate effectively in both written and oral communication through appropriate application of style and register. Through building these critical literacy skills, students develop a deep understanding of how language, culture, and context determine the ways in which a reader or audience constructs meaning. IB Language and Literature I SL, together with IB Language and Literature II SL, prepares students for the standard level IB exam. Completion of this course fulfills the English 11 course requirement.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved. Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

IB Lang & Lit SL 1

(115018)

Grade: 11 Credit: one / weighted +1.0

Prerequisite: English 10

This is the first year of a two-year in-depth study of language and literature. Throughout the course, students critically study the use of language, structure, technique, and style in a range of literary and non-literary texts. Students refine their ability to communicate effectively in both written and oral communication through appropriate application of style and register. Through building these critical literacy skills, students develop a deep understanding of how language, culture, and context determine the ways in which a reader or audience constructs meaning. IB Language and Literature I SL, together with IB Language and Literature II SL, prepares students for the standard level IB exam. Completion of this course fulfills the English 11 course requirement.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved. Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

IB English Lit HL 1

(115009)

Grade: 11 Credit: one / weighted +1.0

Prerequisite: English 10

This is the first year of a two-year in-depth study of a wide-range of literary texts to include works in translation and multiple genres. IB English Literature encourages students to appreciate the artistry of literature and to develop their ability to reflect critically on their reading. In addition, students develop their analytical and creative powers of expression through oral presentations and written responses.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved. Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

IB Lang & Lit HL 1

(115019)

Grade: 11 Credit: one / weighted +1.0

Prerequisite: English 10

This is the first year of a two-year in-depth study of language and literature. Throughout the course, students critically study the use of language, structure, technique, and style in a range of literary and non-literary texts. Students refine their ability to communicate effectively in both written and oral communication through appropriate application of style and register, including critical response and comparative analysis. Through building these critical literacy skills, students develop a deep understanding

of how language, culture, and context determine the ways in which a reader or audience constructs meaning. IB Language and Literature I HL, together with IB Language and Literature II HL, prepares students for the higher level IB exam. Completion of this course fulfills the English 11 course requirement.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved. Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

English 12 – Online Campus (116099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 12 Credit: one
Prerequisite: English 11

Students read and analyze a variety of literary texts within their historical context. Through the study of nonfiction texts, students further develop their inferential, evaluative, and synthesis skills as they critically evaluate information to solve problems, answer questions, and generate new knowledge. To deepen their media literacy, students evaluate sources to determine author's purpose and intended effect. Language study expands students' general and specialized vocabulary through speaking, listening, reading, and viewing. Writing includes the development of externally supported informational, expository, and persuasive/argumentative essays that demonstrate knowledgeable judgments. In addition, students apply research skills to write documented papers. They also apply oral communication skills to craft formal presentations and further develop their listening skills as they analyze the relationships among purpose, audience, and content of presentations.

English 12 HN – Online Campus (116097)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 12 Credit: one / weighted +0.5

Students analyze the ways authors use language and techniques to shape meaning in literary and nonfiction texts, and they consider how texts provide insight to our complex and changing world. In addition to print texts, students analyze and evaluate how media messages influence beliefs and behaviors across time, place, and culture. Through the study of these varied, authentic texts, students build a sophisticated vocabulary by applying their knowledge of connotations, denotations, word origins, and structures. Students apply their language and communication skills to create texts for authentic audiences and purposes, and they use writing as a tool for personal inquiry and communication. Students also communicate through oral presentations and small-group collaboration specific to authentic situations. Throughout the course, students develop a formal research paper that

analyzes complex issues through the synthesis of diverse sources.

English 12 Comp DE (1160DE)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: English 11

This course provides the opportunity for students to earn credit for English 111 and 112 (College Composition I and II) through Northern Virginia Community College. During the first semester, students enroll in English 111 to deepen their understanding of the writing process and research skills through the creation of effective texts for college and the workplace. During the second semester, students enroll in English 112 to extend these skills with increased emphasis on critical essays, argumentation, and research.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment.

English 12 Lit DE – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(1160D8)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: NVCC Prerequisite: English 11 DE with a D or higher in the ENG 112 semester on the NOVA transcript

This course provides the opportunity for students to earn credit for English 255 (MAJOR WRITERS IN WORLD LITERATURE) through Northern Virginia Community College. ENG 255 introduces students to the works of world authors who have influenced the development of world literature. It provides a background to the cultural movements that are manifested in these works and encourages close reading and literary analysis. To enroll in this course, students must meet the college's admission criteria.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment.

English 12 Comp DE – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(1160D9)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: English 11

This course provides the opportunity for students to earn credit for English 111 and 112 (College Composition I and II) through Northern Virginia Community College. During the first semester, students enroll in English 111 to deepen their understanding of the writing process and research skills through the creation of effective texts for

college and the workplace. During the second semester, students enroll in English 112 to extend these skills with increased emphasis on critical essays, argumentation, and research.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment.

AP English Lit/Comp – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(119593)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: English 11

Students study composition and literary analysis at a level equivalent to that of a full-year introductory college course. Through in-depth study of literary works, students sharpen their awareness of language and their understanding of the writer's craft. They establish critical standards for analyzing and evaluating literature. Students work to master college-level literary analysis writing, as well as to hone their narrative, persuasive, and research writing skills. Completion of this course fulfills the English 12 course requirement.

Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved.

IB English Lit SL 2 (116008)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: IB English Literature SL 1

The second year of this IB Film Study SL course continues to develop students as proficient interpreters and makers of film texts. Through the study and analysis of film texts, and practical exercises in film production, students develop critical abilities and appreciation of artistic, cultural, historical and global perspectives in film. They examine concepts, theories, practices and ideas from multiple perspectives, challenging their own views to understand and value those of others. Students are challenged to acquire and develop critical thinking, reflective analysis and the imaginative synthesis through practical engagement in the art, craft and study of film.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB English Lit HL 2 (116009)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: IB English Literature HL 1

This is the second year of a two-year in-depth study of a wide-range of literary texts. Students continue to develop their appreciation of the artistry of literature and further develop an ability to reflect critically on their reading. In addition, students further their analytical and creative powers of expression through oral presentations and written responses. Completion of this course fulfills the English 12 course requirement.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Lang & Lit SL 2 (116017)
Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: IB Language and Literature SL 1 (Fall Semester Double-Block)
Spring Semester Double-Block Class

This is the second year of a two-year in-depth study of language and literature. Students continue to engage in a close study of the language, structure, technique, and style of a range of literary and non-literary texts. They also refine their ability to communicate effectively in both written and oral communication through appropriate application of style and register. Through building these critical literacy skills, students develop a deep understanding of how language, culture, and context determine the ways in which a reader or audience constructs meaning. Completion of this course fulfills the English 12 course requirement.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Lang & Lit SL 2 (116018)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: IB Language and Literature SL 1

This is the second year of a two-year in-depth study of language and literature. Students continue to engage in a close study of the language, structure, technique, and style of a range of literary and non-literary texts. They also refine their ability to communicate effectively in both written and oral communication through appropriate application of style and register. Through building these critical literacy skills, students develop a deep understanding of how language, culture, and context determine the ways in which a reader or audience constructs meaning. Completion of this course fulfills the English 12 course requirement.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Lang & Lit HL 2 (116019)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: IB Language and Literature HL 1

This is the second year of a two-year in-depth study of language and literature. Students continue to engage in a close study of the language, structure, technique, and style of a range of literary and non-literary texts. They also refine their ability to communicate effectively in both written and oral communication through appropriate application of style and register, including critical response and comparative analysis. Through building these critical literacy skills, students develop a deep understanding of how language, culture, and context determine the ways in which a reader or audience constructs meaning. Completion of this course fulfills the English 12 course requirement.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

Creative Writing 1 (117100)
Grade: 9, 10, 11, 12 Credit: one

This course provides students an opportunity for additional writing instruction beyond the standard English program. Experimentation with many forms of writing is encouraged, with an emphasis on poetry, prose fiction, plays, and other forms of descriptive writing. Students continue to expand and refine their ability to write through analyzing and evaluating their own writing and that of other students.

Creative Writing 1 – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(117198) Grade: 9, 10, 11, 12 Credit: one-half
This is a Semester Course.

This semester course provides students an opportunity for additional writing instruction beyond the standard English program. Experimentation with many forms of writing is encouraged, with an emphasis on poetry, prose fiction, plays, and other forms of descriptive writing. Students continue to expand and refine their ability to write through analyzing and evaluating their own writing and that of other students.

Creative Writing 2 (117200)
Grade: 10, 11, 12 Credit: one
Prerequisite: Creative Writing 1

This course provides students an opportunity for further exploration of creative writing. Students continue to experiment with many forms of writing, with an emphasis on poetry, fiction, plays, and other forms of descriptive writing. Students hone their writing skills by attempting more advanced work while also working collaboratively with other students on revision and critique.

Creative Writing 2 – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(117298) Grade: 10, 11, 12 Credit: one-half
Prerequisite: Creative Writing 1
This is a Semester Course.

This course provides students an opportunity for further exploration of creative writing. Students continue to experiment with many forms of writing, with an emphasis on poetry, fiction, plays, and other forms of descriptive writing. Students hone their writing skills by attempting more advanced work while also working collaboratively with other students on revision and critique.

Creative Writing 3 (117300)
Grade: 11, 12 Credit: one
Prerequisite: Creative Writing 2

This course provides students an opportunity to study creative writing at an advanced level through a collaborative workshop approach. Students continue to experiment with many forms of writing, with an emphasis on poetry, short stories, plays, and other forms of descriptive writing. Students work independently and through peer critique groups to refine their writing and develop a sense of voice.

Creative Writing 3 – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(117398) Grade: 11, 12 Credit: one-half
Prerequisite: Creative Writing 2
This is a Semester Course.

This course provides students an opportunity to study creative writing at an advanced level through a collaborative workshop approach. Students continue to experiment with many forms of writing, with an emphasis on poetry, short stories, plays, and other forms of descriptive writing. Students work independently and through peer critique groups to refine their writing and develop a sense of voice.

Creative Writing 4 – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(117498) Grade: 12 Credit: one-half
Prerequisite: Creative Writing 3
This is a Semester Course.

This course provides students an opportunity to study creative writing at an advanced level through a collaborative workshop approach. Students continue to experiment with many forms of writing, with an emphasis on poetry, short stories, plays, and other forms of descriptive writing. Students work independently and through peer critique groups to refine their writing and develop a sense of voice.

Film Study (144600)
Grade: 10, 11, 12 Credit: one

This course involves the study of classic and award-winning films. Students critique both the artistic and technical merits of the films. They study the development of theme, plot, characterization, and setting in each production. They learn the vocabulary associated with film and use this vocabulary when discussing or writing about films

Film Study – Online Campus (144699)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 9, 10, 11, 12 Credit: one

This course involves the study of classic and award-winning films. Students critique both the artistic and technical merits of the films. They study the development of theme, plot, characterization, and setting in each production. They learn the vocabulary associated with film and use this vocabulary when discussing or writing about films

IB Film Study SL 1 (144608)
Grade: 11 Credit: one / weighted +1.0

The first year of this IB Film Study SL course aims to develop students as proficient interpreters and makers of film texts. Through the study and analysis of film texts, and practical exercises in film production, students develop critical abilities and appreciation of artistic, cultural, historical and global perspectives in film. They examine concepts, theories, practices and ideas from multiple perspectives, challenging their own views to understand and value those of others. Students are challenged to acquire and develop critical thinking, reflective analysis and the imaginative synthesis through practical engagement in the art, craft and study of film.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Film Study HL 1 (144609)
Grade: 11 Credit: one / weighted +1.0

The first year of this IB Film Study HL course aims to develop students as proficient interpreters and makers of film texts. Through the study and analysis of film texts, and practical exercises in film production, students develop critical abilities and appreciation of artistic, cultural, historical and global perspectives in film. They examine concepts, theories, practices and ideas from multiple perspectives, challenging their own views to understand and value those of others. Students are challenged to acquire and develop critical thinking, reflective analysis and the imaginative synthesis through practical engagement in the art, craft and study of film. In addition to the SL material, HL students will focus on the collaborative aspects of filmmaking and experience working in core

production teams to fulfill shared artistic intentions to collaboratively create original completed films.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Film Study SL 2 (144658)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: IB Film Study 1

The second year of this IB Film Study SL course continues to develop students as proficient interpreters and makers of film texts. Through the study and analysis of film texts, and practical exercises in film production, students develop critical abilities and appreciation of artistic, cultural, historical and global perspectives in film. They examine concepts, theories, practices and ideas from multiple perspectives, challenging their own views to understand and value those of others. Students are challenged to acquire and develop critical thinking, reflective analysis and the imaginative synthesis through practical engagement in the art, craft and study of film.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Film Study HL 2 (144659)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: IB Film Study 1

The second year of this IB Film Study HL course continues to develop students as proficient interpreters and makers of film texts. Through the study and analysis of film texts, and practical exercises in film production, students develop critical abilities and appreciation of artistic, cultural, historical and global perspectives in film. They examine concepts, theories, practices and ideas from multiple perspectives, challenging their own views to understand and value those of others. Students are challenged to acquire and develop critical thinking, reflective analysis and the imaginative synthesis through practical engagement in the art, craft and study of film. In addition to the SL material, HL students will focus on the collaborative aspects of filmmaking and experience working in core production teams to fulfill shared artistic intentions to collaboratively create original completed films.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

Journalism 1 (120000)
Grade: 9, 10, 11, 12 Credit: one

In Journalism 1, students learn the history and language of journalism; develop communication skills in writing, designing and editing for a variety of media; understand news and the process of

publication; and become more critical readers and consumers of mass media. This course prepares students for continued study in journalism, photojournalism, and broadcast journalism.

Journalism 2 (121000)
Grade: 10, 11, 12 Credit: one
Prerequisite: Journalism 1

In Journalism 2, students learn and apply techniques of layout, design, and desktop publishing. Students develop a more sophisticated level of journalistic writing and participate in the operation and production of the high school newspaper and/or student-produced website. Students also learn skills in business and circulation management.

Journalism 3 HN (121100)
Grade: 11, 12 Credit: one / weighted +0.5
Prerequisite: Journalism 2

In addition to enhancing their skills as reporters, students in Journalism 3 learn the role of editorial leadership, develop a personal sense of professionalism, understand the role of the newspaper in society, and become productive members of the newspaper and/or student-produced website staff. Students also learn skills in business and circulation management.

Journalism 4 HN (121200)
Grade: 12 Credit: one / weighted +0.5
Prerequisite: Journalism 3

In Journalism 4, students learn marketable publications skills; develop individual writing, layout, and design styles; and may assume editorial leadership and responsibility for producing a high school newspaper and/or student-produced website. Students also take responsibility for business and circulation management.

LGBTQ+ Perspectives Lit (116700)
Grade: 10, 11, 12 Credit: one

This course builds on students' abilities in reading, writing, listening, and speaking through the exploration of a variety of literature that demonstrates and celebrates voices from a diverse, LGBTQ+ perspective. Through varied texts and media, activities will engage students' critical thinking around issues facing LGBTQ+ people and communities. The course is designed to focus on literary analysis in regards to themes and rhetoric of LGBTQ+ writing, but also to employ argument as a tool to examine the obstacles of the community both past and present.

Photo Journalism 1 (121500)
Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Journalism 1 or instructor permission

In Photojournalism 1, students learn the principles of interviewing, copywriting, photography, layout, and design. Students use publishing software to create pages for the school's yearbook.

Photo Journalism 2 (121600)
Grade: 10, 11, 12 Credit: one
Prerequisite: Photojournalism 1

In Photojournalism 2, students develop their copywriting skills and advance their photography and design skills as they create pages for the school's yearbook. They may also become section editors.

Photo Journalism 3 HN (121700)
Grade: 11, 12 Credit: one / weighted +0.5
Prerequisite: Photojournalism 2

In Photojournalism 3, students refine their copywriting skills and advance their computer and photography skills, develop individual style, and may assume leadership roles as members of the yearbook staff's editorial board.

Photo Journalism 4 HN (121714)
Grade: 12 Credit: one / weighted +0.5
Prerequisite: Photojournalism 3

In Photojournalism 4, students continue to refine their copywriting skills and advance their computer and photography skills, develop individual style, and assume leadership roles.

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES

Entering ELD 1 (572010)
Grade: 9, 10, 11, 12 Credit: one

English language development (ELD) is direct language instruction in the 2 modes of communication: the interpretive mode (listening, reading, and viewing) and the expressive mode (writing, speaking, and representing). ELD is standards-based instruction aligned to the 5 WIDA ELD Standards, and academic content is used as the context for language learning. The WIDA Proficiency Level Descriptors are used to set individualized goals for language development, monitor students' progress toward those goals, and plan for meaningful instruction. This course is designed for students at the beginning levels of English language discourse.

Emerging ELD 2 (572050)
Grade: 9, 10, 11, 12 Credit: one

English language development (ELD) is direct language instruction in the 2 modes of communication: the interpretive mode (listening, reading, and viewing) and the expressive mode (writing, speaking, and representing). ELD is standards-based instruction aligned to the 5 WIDA

ELD Standards, and academic content is used as the context for language learning. The WIDA Proficiency Level Descriptors are used to set individualized goals for language development, monitor students' progress toward those goals, and plan for meaningful instruction. This course is designed for students at the emerging levels of English language discourse.

Developing ELD 3 (572090)
Grade: 9, 10, 11, 12 Credit: one

English language development (ELD) is direct language instruction in the 2 modes of communication: the interpretive mode (listening, reading, and viewing) and the expressive mode (writing, speaking, and representing). ELD is standards-based instruction aligned to the 5 WIDA ELD Standards, and academic content is used as the context for language learning. The WIDA Proficiency Level Descriptors are used to set individualized goals for language development, monitor students' progress toward those goals, and plan for meaningful instruction. This course is designed for students at the developing levels of English language discourse.

Expanding ELD 4 (573000)
Grade: 9, 10, 11, 12 Credit: one

English learners develop their English language proficiency and English literacy skills. Students engage in tasks that support academic language development in the four domains—reading, writing, listening and speaking. Ongoing formal and informal assessment data are used to appropriately place and transition students through the levels of the ELD courses. This course is aligned to the WIDA English language development (ELD) standards.

English 9 – ELP Level 1-3 (573090)
Grade: 9 Credit: one

This course is designed to develop content understanding and English language proficiency simultaneously. Students read and analyze a variety of linguistically appropriate literary and nonfiction texts, exploring the characteristics of different forms and the techniques authors use to achieve their intended purpose. Language study extends students' vocabulary through learning about connotations, denotations, word origins, and structures. Students apply their understanding of grammar, capitalization, punctuation, spelling, sentence structure, and paragraphing to varied and frequent writing assignments. Through narrative, expository, and persuasive writings, students build on their understanding of writing as a process of prewriting, drafting, revising, and publishing. In the research process, students find, evaluate, and select appropriate sources to access information to create a research product. They also develop communication skills through listening to and practicing oral presentations. This course is aligned to the WIDA English language development standards and the English 9 Standards of Learning.

English 10 – ELP Level 1-3 (573190)
Grade: 10 Credit: one

This course is designed to develop content understanding and English language proficiency simultaneously. Students read and analyze a variety of literary and nonfiction texts, comparing and contrasting the techniques authors use in literature of different cultures and eras. Language study continues to expand students' vocabulary through learning about connotations, denotations, word origins, and structures. Students apply their understanding of grammar, capitalization, punctuation, spelling, sentence structure, and paragraphing to varied and frequent writing assignments. With an emphasis on expository and analytical writing, students expand their understanding of writing as a process and develop their skills in revising to address a specific audience and purpose. In the research process, students collect, evaluate, organize, and present accurate and valid information to create a research product. They also improve communication and collaboration skills through small and large group discussions and presentations.

Bridging to Literacy (571012)
Grade: 9 Credit: one

Prerequisite: Student placement in this course is based on results from the Home Language Assessment administered at the Student Registration Welcome Center.

Corequisite: Students must also register in 571013 Literacy for ELs with SLIFE Status and Home Language of Spanish (ELP level 1) Students must register for both 571012 & 571013

This double blocked course is designed for Recently Arrived Spanish-speaking ELs at ELP level 1 with a SLIFE Status and significant gaps in their home language literacy. Student placement in this course is based on results from the Home Language Assessment administered at the Student Registration Welcome Center. This course provides direct, explicit, and intensive foundational literacy instruction by bridging between Spanish and English language & literacy. Learning opportunities for students are based on individual needs. HS students in this course may defer enrollment in English 9 for ELs for a period of one year while enrolled in this class. This course satisfies ELD requirement.

Bridging to Literacy (571013)
Grade: 9 Credit: one

Prerequisite: Student placement in this course is based on results from the Home Language Assessment administered at the Student Registration Welcome Center.

Corequisite: Students must also register for 571012

Students must register for 571012 & 571013

This is the second course of a double block designed for Recently Arrived Spanish-speaking ELs at ELP level 1 with a SLIFE Status and significant gaps in their home language literacy. Student placement in this course is based on results from the Home Language Assessment administered at the Student Registration Welcome Center. This course provides direct, explicit, and intensive foundational literacy instruction by bridging between Spanish and English language & literacy. Learning opportunities for students are based on individual needs. Students in this course may defer enrollment in English 9 for ELs for a period of one year while enrolled in this class. This is the second block of a double blocked course.

Math Readiness EL (312192)
Grade: 9, 10, 11 Credit: one

The elective credit course is designed for WIDA ELP Level 1 & 2 students with significant gaps in mathematics to support the development of the mathematics and language skills necessary for success in Algebra 1. Students examine algebra and geometry preparatory concepts and skills; strategies for collecting, analyzing, and interpreting data; and number concepts and skills emphasizing proportional reasoning. Problem solving, communication, concept representation, and connections among mathematical ideas are presented in a hands-on learning environment. This course emphasizes language objectives in addition to mathematics objectives and does not meet the mathematics graduation requirements.

Numeracy Essential EL (312196)
Grade: 9, 10 Credit: one

This elective credit course is designed to provide direct, explicit and intensive mathematics instruction to English Learners with an English Language Proficiency (ELP) level 1 who have significant gaps in their home language instruction and numeracy skills. With the goal to equip students for success in core mathematics classes, instruction will focus on the essential components of numeracy which include counting (including subitizing), comparisons of quantities, decomposing numbers, patterns, computation and estimation. Due to the targeted and foundational nature of the course, student placement is dependent upon assessment outcomes as well as information gathered and reviewed through a SLIFE Consultation. Students placed in Numeracy Essentials may defer enrollment in Mathematics Readiness if appropriate for a period of one year while enrolled in this class. Parents must be informed of this placement decision, and a meeting with the parents is recommended to review the student data and student need.

Pre-Algebra EL (312190)
Grade: 9, 10, 11 Credit: one

The elective credit course is designed for WIDA ELP Level 1 & 2 students with gaps in mathematics to support the development of the mathematics and language skills necessary for success in Algebra 1. Students examine Algebra- and Geometry- preparatory concepts and skills; strategies for

collecting, analyzing, and interpreting data; and number concepts and skills emphasizing proportional reasoning. Problem solving, communication, concept representation, and connections among mathematical ideas are presented in a hands-on learning environment. Students may need up to two years to complete the course, but should move to the next course as soon as their mathematics skills warrant. This course emphasizes language objectives in addition to mathematics objectives and does not meet the mathematics graduation requirements.

Active Physics (451090)
Grade: 10, 11, 12 Credit: one

This course is designed to develop content understanding and English language proficiency simultaneously. Active Physics is a physics course for students who have not yet passed Algebra I or were weak in Algebra I during the previous school year. This course has a strong emphasis on experimentation. The units of study focus on predictions and real-world applications such as sports, medicine, transportation, home, and communication. The physics content is presented in a problem solving manner to strengthen both science and mathematics content knowledge and skills.

US VA Government (244090)
Grade: 9, 10, 11, 12 Credit: one

This course is designed to develop content understanding and English language proficiency simultaneously. Students examine both the structure and function of American government at the national, state, and local levels using linguistically appropriate resources. The course focuses on political decision-making, comparative political and economic systems, and the student's role as a citizen. Students engage in reading, writing, speaking and listening tasks that promote academic language development and target the language necessary for students to demonstrate complex thinking and learning. This course is aligned to the WIDA English language development standards and the Virginia and US Government Standards of Learning and fulfills the Virginia and United States Government requirement for graduation.

Strats for Success (788990)
Grade: 9, 10, 11 Credit: one

This elective course is designed to provide support to English Learners new to US schools in core curricular areas and to provide direct instruction in specific learning strategies, study skills, time management, organization, and self-advocacy skills to develop the habits necessary for academic success. Students will gain skills in personal development and socio-emotional awareness skills. In addition, this course will teach strategies to enhance English language development in the four language domains of reading, writing, listening and speaking. Students will participate in building a strong classroom and school community through class meetings and intercultural communication.

Emerging ELD 2 (572052)
Grade: 10 Credit: one

English language development (ELD) is direct language instruction in the 2 modes of communication: the interpretive mode (listening, reading, and viewing) and the expressive mode (writing, speaking, and representing). ELD is standards-based instruction aligned to the 5 WIDA ELD Standards, and academic content is used as the context for language learning. The WIDA Proficiency Level Descriptors are used to set individualized goals for language development, monitor students' progress toward those goals, and plan for meaningful instruction. This course is designed for students at the emerging levels of English language discourse.

Emerging ELD 2 (572051)
Grade: 9 Credit: one

English language development (ELD) is direct language instruction in the 2 modes of communication: the interpretive mode (listening, reading, and viewing) and the expressive mode (writing, speaking, and representing). ELD is standards-based instruction aligned to the 5 WIDA ELD Standards, and academic content is used as the context for language learning. The WIDA Proficiency Level Descriptors are used to set individualized goals for language development, monitor students' progress toward those goals, and plan for meaningful instruction. This course is designed for students at the emerging levels of English language discourse.

FINE ARTS: DANCE

Dance 1 – Fairfax/West Po Academy
Academy course enrollment must be approved by the appropriate Academy.

(931126) Grade: 9, 10, 11, 12 Credit: one

Academy Dance 1 is a course where students will develop fundamental skills in dance through movement, placement, alignment, and technique, for selected dance forms which may include ballet, jazz, modern, tap, and social dances. Students will cultivate dance vocabulary, study dance history, and develop improvisational and performance skills. Participation in academy-based performances may be required to receive credit for this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Dance 2 – Fairfax/West Po Academy
Academy course enrollment must be approved by the appropriate Academy.

(931326) Grade: 10, 11, 12 Credit: one
Prerequisite: Dance 1. Audition may be required and/or recommendation of dance teacher.

Dance 2 is a course where students will develop proficiency in dance through movement, alignment, technique, flexibility and strength. Students will broaden and accrue knowledge in dance history,

vocabulary, criticism, anatomy, kinesiology, theory, and composition. Students will explore concepts and employ skills in choreography, improvisation and performance. Participation in academy-based performances may be required to receive credit for this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Dance 3 – Fairfax/West Po Academy
Academy course enrollment must be approved by the appropriate Academy.

(931527) Grade: 11, 12 Credit: two
Prerequisite: Dance 2. Audition may be required and/or recommendation of dance teacher.

Dance 3 is a course where students will focus on intensive work and proficiency in dance through movement, alignment, technique, flexibility and strength. Students will deepen and accrue knowledge in dance history, vocabulary, criticism, anatomy, kinesiology, theory, and composition. Students will apply concepts and skills in choreography, improvisation and performance. Participation in academy-based performances may be required to receive credit for this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Dance 4 – Fairfax/West Po Academy
Academy course enrollment must be approved by the appropriate Academy.

(931927) Grade: 12 Credit: two
Prerequisite: Academy Dance 3. Audition may be required and/or recommendation of dance teacher.

Academy Dance 4 is a course where students will demonstrate and enhance proficiency in dance through advanced movement, alignment, technique, flexibility and strength. Students will research and articulate knowledge in dance history, vocabulary, criticism, anatomy, kinesiology, theory, and composition. Students will synthesize concepts and skills in choreography, improvisation and performance. Participation in academy-based performances may be required to receive credit for this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Broadway Dance – Fairfax Academy
Academy course enrollment must be approved by the appropriate Academy.

(932126) Grade: 9, 10, 11, 12 Credit: one

Broadway Dance is a course where students will explore instruction and techniques of Broadway dance. Students will study movement in a variety of theatrical styles such as jazz and tap. Students will also increase their knowledge of Broadway's most high-profile choreographers and their famous works.

Students will gain the ability to apply dance technique and learn to express musicality in a physical way through class activities and performances. Participation in academy-based performances may be required to receive credit for this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Hip Hop Dance – Fairfax Academy
Academy course enrollment must be approved by the appropriate Academy.

(932326) Grade: 9, 10, 11, 12 Credit: one

Hip Hop Dance is a course where students will focus on the foundations and origins of Hip-Hop dance culture including street, commercial and freestyle forms. Students will be encouraged to step outside of the box by bringing their own individual style and personality to movements. Students will be challenged and encouraged to understand and apply historical and practical knowledge of Hip-Hop through class activities and performances. Participation in academy-based performances may be required to receive credit for this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

FINE ARTS: MUSIC

Beginning Band (923215)
Grade: 9, 10, 11, 12 Credit: one

Beginning Band students develop skills as individual musicians and as members of a musical group. Guidance will be given by the instructor in the selection of an instrument. Course content includes beginning level technical and ensemble skills necessary for performance. Some performance opportunities are provided. Marching band techniques and performances may be included. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Band (923315)
Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Beginning Band or successful audition

Band students continue developing as individual musicians and as members of a musical group. Emphasis is placed on the development of intermediate level technical and ensemble skills necessary for performance. Marching band techniques and performances may be included. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Advanced Band HN (923415)
Grade: 9, 10, 11, 12 Credit: one / weighted +0.5
Prerequisite: Successful audition

Students in Advanced Band form the representative performing band for the school. Emphasis is placed on the sequential development of advanced technical skills and on the study of related literature. Based on successful completion of sequential concepts for each level, students will continue to learn advanced musical concepts. Marching band techniques, rehearsals, and performances are required in this course. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Advanced Band HN (923416)
Grade: 9, 10, 11, 12 Credit: one / weighted +0.5
Prerequisite: Successful audition

Students in Advanced Band form the representative performing band for the school. Emphasis is placed on the sequential development of advanced technical skills and on the study of related literature. Based on successful completion of sequential concepts for each level, students will continue as specified in course level. Marching band techniques, rehearsals, and performances are required in this course. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Beginning Orchestra (923715)
Grade: 9, 10, 11, 12 Credit: one

Beginning Orchestra students develop skills as individual musicians and as members of a musical group. Guidance will be given by the instructor in the selection of an instrument. Course content includes beginning level technical and ensemble skills necessary for performance. Some performance opportunities are provided. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Orchestra (923815)
Concert Orchestra
Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Beginning Orchestra or successful audition

Orchestra students continue developing as individual musicians and as members of a musical group. Emphasis is placed on the development of intermediate level technical and ensemble skills necessary for performance. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Advanced Orchestra HN (923915)
Symphonic Orchestra
Grade: 9, 10, 11, 12 Credit: one / weighted +0.5
Prerequisite: Successful audition

Advanced Orchestra students in this course form the representative string performing group for the school. Emphasis is placed on the sequential development of advanced technical, ensemble, and disciplinary skills necessary for refined rehearsal and performance both in and out of school. Based on successful completion of sequential concepts for each level, students will continue to learn advanced musical concepts. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Advanced Orchestra HN (923916)
Chamber Orchestra
Grade: 9, 10, 11, 12 Credit: one / weighted +0.5
Prerequisite: Successful audition

Advanced Orchestra students in this course form the representative string performing group for the school. Emphasis is placed on the sequential development of advanced technical, ensemble, and disciplinary skills necessary for refined rehearsal and performance both in and out of school. Based on successful completion of sequential concepts for each level, students will continue as specified in the course. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Advanced Chorus HN (928915)
Select Vocal Ensemble
Grade: 9, 10, 11, 12 Credit: one / weighted +0.5
Prerequisite: Successful audition

Advanced Chorus students are offered advanced choral experiences. Emphasis is placed on the development of musicianship and proficiency in

ensemble performance. Course content includes a study of choral literature, vocal techniques, and sight-singing. Based on successful completion of sequential concepts for each level, students will continue to learn advanced musical concepts. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Sopr Alto Chorus (928516)
Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Beginning chorus or successful audition

Soprano/Alto Chorus students will continue to study correct vocal production, sight-singing, and development of musicianship through appropriate choral literature. Based on successful completion of sequential concepts for each level, students will continue as specified in the course. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Tenor Bass Chorus (928517)
Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Beginning chorus or successful audition

Tenor/Bass Chorus students will continue to study correct vocal production, sight-singing, and development of musicianship through appropriate choral literature. Based on successful completion of sequential concepts for each level, students will continue as specified in course level. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Adv Sopr Alto Chorus HN (928916)
Grade: 9, 10, 11, 12 Credit: one / weighted +0.5
Prerequisite: Successful audition

Advanced Soprano/Alto Chorus students are offered advanced choral experiences. Emphasis is placed on the development of musicianship and proficiency in ensemble performance. Course content includes a study of choral literature, vocal techniques, and sight-singing. Based on successful completion of sequential concepts for each level, students will continue as specified in the course. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Guitar 1 (924515)
Grade: 9, 10, 11, 12 Credit: one

Guitar 1 students learn the fundamentals of guitar. Guitar instruction emphasizes basic technique, reading, progressions, and music theory. Instructional literature is selected from classical and contemporary repertoire. Guest artists, concerts, and field trips to performances and/or seminars may also be part of the curriculum.

This course requires a student materials fee as listed in FCPS Notice 5922.

Guitar 2 (924516)
Grade: 9, 10, 11, 12 Credit: one

Prerequisite: Successful audition or successful completion of Guitar 1 or permission of the instructor

Guitar 2 students continue to develop skills on the guitar. Guitar instruction emphasizes intermediate technique, reading, progressions, and music theory. Instructional literature is selected from classical and contemporary repertoire. Guest artists, concerts, and field trips to performances and/or seminars may also be part of the curriculum.

This course requires a student materials fee as listed in FCPS Notice 5922.

Guitar 3 (924517)
Grade: 9, 10, 11, 12 Credit: one

Prerequisite: Successful audition or successful completion of Guitar 2 or permission of the instructor

Guitar 3 students continue to develop skills on the guitar. Guitar instruction emphasizes advanced technique, reading, progressions, and music theory. Instructional literature is selected from classical and contemporary repertoire. Guest artists, concerts, and field trips to performances and/or seminars may also be part of the curriculum.

This course requires a student materials fee as listed in FCPS Notice 5922.

Guitar Ensemble 1 (924518)
Grade: 9, 10, 11, 12 Credit: one

Prerequisite: Successful audition or permission of the instructor

Students in Guitar Ensemble 1 form one of the representative performing guitar ensembles for the school. Emphasis is placed on the sequential development of advanced technical skills and on the study of related literature. Based on successful completion of sequential concepts for each level, students will continue as specified in course level. Students may also participate in the guitar state concert assessment in the spring, concerts, and/or other performance opportunities. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Music Sampler (921415)
Grade: 9, 10, 11, 12 Credit: one

Music Sampler students are provided the opportunity to sample a variety of musical experiences in a non-performing music class. Course content is designed to meet the interests of the students, as well as developing music reading and composing skills. Selected composers and musical compositions will be studied as a part of this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Music Comp Tech 1 – Fairfax Academy
Academy course enrollment must be approved by the appropriate Academy.

(922527) Grade: 11, 12 Credit: two
Prerequisite: Advanced Music Theory or a music theory background (Interview may be required with the instructor.)

Music Computer Technology 1 students will explore the use of computers and other electronic technologies in music including: Musical Instrumental Digital Interface (MIDI), analog and digital synthesis, sequencing, acoustics, sound processing, and electronic musical composition using the latest music industry software and the internet. For more information, visit the academy website.

This course requires a student materials fee as listed in FCPS Notice 5922.

Music Comp Tech 2 – Fairfax Academy
Academy course enrollment must be approved by the appropriate Academy.

(922627) Grade: 12 Credit: two
Prerequisite: Music Computer Technology 1

Music Computer Technology 2 students will expand on the use of computers and other electronic technologies developed in Music Computer Technology I including: Musical Instrumental Digital Interface (MIDI), analog and digital synthesis, sequencing, acoustics, sound processing, and electronic musical composition using the latest music industry software and the internet. For more information, visit the academy website.

This course requires a student materials fee as listed in FCPS Notice 5922.

FINE ARTS: THEATRE ARTS

Theatre Arts 1 (141000)
Grade: 9, 10, 11, 12 Credit: one

Theatre Arts 1 is a course where students will develop performance and collaboration skills while exploring the role and impact of theatre in society and culture. Through various theatre activities, students will examine artistic roles and relationships, acting techniques, technical elements, and the creative process. This course emphasizes skill

development and provides theatrical opportunities that enable students to determine personal areas of interest. Participation in co-curricular activities and performance may be required to receive credit for this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Theatre Arts 2 (142000)
Students who have taken Theatre in Middle School should choose Theatre 2.

Grade: 10, 11, 12 Credit: one
Prerequisite: Theatre Arts 1 and/or recommendation of the theatre arts teacher.

Theatre Arts 2 is a course where students will integrate and build upon concepts and skills from Theatre Arts 1. Through various performance activities, students will further skill development in acting technique, the analysis of dramatic texts, and the examination of personal artistic preferences. This course emphasizes the exploration of historical, cultural, social, and political influences in theatre. Participation in co-curricular activities and performance may be required to receive credit for this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Theatre Arts 3 HN (143000)
Grade: 11, 12 Credit: one / weighted +0.5
Prerequisite: Theatre Arts 2 and/or recommendation of the theatre arts teacher.

Theatre Arts 3 is a course where students will practice artistic leadership and collaboration through their work on various performance projects. Advanced work in script analysis, character interpretation, and acting technique is expected. This course emphasizes the exploration of personal identity and stylistic influences in theatre. Participation in co-curricular activities and performance may be required to receive credit for this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Theatre Arts 4 HN (144000)
Grade: 12 Credit: one / weighted +0.5
Prerequisite: Theatre Arts 3 and/or recommendation of the theatre arts teacher.

Theatre Arts 4 is a course where students will apply artistic leadership and performance skills to personal areas of interest in theatre arts. Through the initiation and completion of major research and/or creative projects, students will synthesize knowledge in theatrical topics such as acting, directing, playwriting, designing, stage-managing, and producing. This course emphasizes in-depth analysis of theatrical works and the application of self-evaluation for lifelong artistic growth. Participation in

co-curricular activities and performance may be required to receive credit for this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Technical Theatre 1 (143511)
Grade: 9, 10, 11, 12 Credit: one

Technical Theatre 1 is a course where students will explore various areas of technical theatre including scenery, properties, costumes, hair, makeup, lighting, sound, and stage management. Through various projects and activities, students will develop an understanding of technical theatre safety and the production process. This course emphasizes collaboration and provides theatrical production opportunities that enable students to determine personal areas of interest. Participation in co-curricular activities and productions may be required to receive credit for this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Technical Theatre 2 (143512)
Grade: 10, 11, 12 Credit: one
Prerequisite: Technical Theatre 1 and/or recommendation of theatre arts teacher.

Technical Theatre 2 is a course where students will integrate and build upon concepts and skills from Technical Theatre 1. Through various projects and activities, students will further skill development to safely and effectively execute technical designs. This course emphasizes the analysis of dramatic text to create and interpret production design and documentation. Participation in co-curricular activities and productions may be required to receive credit for this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Technical Theatre 3 HN (143513)
Grade: 11, 12 Credit: one / weighted +0.5
Prerequisite: Technical Theatre 2 and/or recommendation of theatre arts teacher.

Technical Theatre 3 is a course where students will practice artistic leadership and collaboration through their work on various production projects. Advanced work in script analysis, design interpretation, and technical skills is expected. This course emphasizes the exploration of production roles and personal areas of interest in technical theatre. Participation in co-curricular activities and productions may be required to receive credit for this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Technical Theatre 4 HN (143514)
Grade: 12 Credit: one / weighted +0.5
Prerequisite: Technical Theatre 3 and/or recommendation of theatre arts teacher.

Technical Theatre 4 is a course where students will apply artistic leadership and production skills to personal areas of interest in technical theatre. Through the initiation and completion of major production projects, students will synthesize knowledge in selected technical areas such as scenery, properties, costumes, hair, makeup, lighting, sound, and stage management. This course emphasizes in-depth analysis of theatrical works and the application of self-evaluation for lifelong artistic growth. Participation in co-curricular activities and productions may be required to receive credit for this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

IB Theatre Arts SL 1 (143008)
Grade: 11 Credit: one / weighted +1.0
Prerequisite: Theatre Arts 1 and 2 strongly recommended and/or recommendation of the theatre arts teacher.

IB Theatre Arts SL1 is a course where students will engage in an in-depth study of the nature, theories, and processes of theatre and theatrical production through both practical and theoretical applications of the art form. Concurrently, students involve their senses, bodies and emotions to understand the forms theatre takes in cultures other than their own. Students will develop a portfolio including a journal and visual materials that catalog the development of the student's performance skills and production contributions. Summer assignment may be required. IB Theatre Arts SL I, together with IB Theatre Arts SL II, prepares students for the standard level IB exam. Participation in co-curricular activities and performances may be required to receive credit for this course.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved. This course requires a student materials fee as listed in FCPS Notice 5922.

IB Theatre Arts HL 1 (143009)
Grade: 11 Credit: one / weighted +1.0
Prerequisite: Theatre Arts 1 and 2 strongly recommended and/or recommendation of the theatre arts teacher.

IB Theatre Arts HL 1 is a course where students will engage in an in-depth study of the nature, theories, and processes of theatre and theatrical production through both practical and theoretical applications of the art form. Concurrently, students involve their senses, bodies and emotions to understand the forms theatre takes in cultures other than their own. Students will develop a portfolio including a journal and visual materials that catalog the development of the student's performance skills and production

contributions. Students develop a high degree of aptitude in acting, directing, playwriting, or design. Summer assignment may be required. IB Theatre Arts HL I, together with IB Theatre Arts HL II, prepares students for the higher level IB exam. Participation in co-curricular activities and performances may be required to receive credit for this course.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved. This course requires a student materials fee as listed in FCPS Notice 5922.

IB Theatre Arts SL 2 (144008)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: IB Theatre Arts SL 1

IB Theatre Arts SL2 is a course where students will expand upon an in-depth study of the nature, theories and processes of theatre and theatrical production through both practical and theoretical applications of the art form. Concurrently, students involve their senses, bodies and emotions to understand the forms theatre takes in cultures other than their own. Students complete a critical evaluation of an external production that becomes part of their 3000 word portfolio. Students develop a high degree of aptitude in acting, directing, playwriting, or design. Summer assignment may be required. Participation in co-curricular activities and performances may be required to receive credit for this course.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved. This course requires a student materials fee as listed in FCPS Notice 5922.

IB Theatre Arts HL 2 (144009)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: IB Theatre Arts HL 1

IB Theatre Arts HL 2 is a course where students will expand upon an in-depth study of the nature, theories and processes of theatre and theatrical production through both practical and theoretical applications of the art form. Concurrently, students involve their senses, bodies and emotions to understand the forms theatre takes in cultures other than their own. Students complete a critical evaluation of an external production plus an individual study consisting of a self-designed project that becomes part of their 4500 word portfolio. Students develop a high degree of aptitude in acting, directing, playwriting, or design. Summer assignment may be required. Participation in co-curricular activities and performances may be required to receive credit for this course.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved. This course requires a student materials fee as listed in FCPS Notice 5922.

Musical Theatre Fund – Fairfax Academy
Academy course enrollment must be approved by the appropriate Academy.

(141026) Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Audition recommended, Interview required

Musical Theatre Fundamentals is a year long course where students will identify and practice performance techniques specific to musical theatre through multidisciplinary lenses; including, but not limited to: musical theatre history, singing, acting, and movement. Through observing and participating in various activities, students will examine classical and contemporary musical theatre works, characters, and styles with an overall emphasis on performance. Participation in academy-based performances may be required to receive credit for this course. This course may be used to satisfy the graduation requirement for a credit in fine arts.

This course requires a student materials fee as listed in FCPS Notice 5922.

Music Theatre Wkshp – Fairfax Academy
Academy course enrollment must be approved by the appropriate Academy.

(143026) Grade: 10, 11, 12 Credit: one
Prerequisite: Musical Theatre Fundamentals. Audition recommended, interview required.

Musical Theatre Workshop is a course where students will explore and develop performance techniques specific to musical theatre through multidisciplinary lenses; including, but not limited to: musical theatre history, basic music theory, acting methods, and dance. Through observing and participating in various activities, students will analyze classical and contemporary musical theatre works, characters, and styles with an overall emphasis on performance and critique. Participation in academy-based performances may be required to receive credit for this course. This course may be used to satisfy the graduation requirement for a credit in fine arts.

This course requires a student materials fee as listed in FCPS Notice 5922.

Adv Music Theatre Wkshp – Fairfax Acad
Academy course enrollment must be approved by the appropriate Academy.

(143027) Grade: 11, 12 Credit: two
Prerequisite: Musical Theatre Workshop. Audition required.

Advanced Musical Theatre Workshop is a course where students will evaluate and demonstrate performance techniques specific to musical theatre through multidisciplinary lenses; including, but not limited to: advanced music theory, vocal pedagogy, and choreography. Through observing and participating in various activities, students will justify classical and contemporary musical theatre works,

structures, and content with an overall emphasis on performance, and audition technique. Participation in academy-based performances may be required to receive credit for this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

Pre-Prof Music Theatre – Fairfax Academy
Academy course enrollment must be approved by the appropriate Academy.

(145027) Grade: 12 Credit: two
Prerequisite: Advanced Musical Theatre Workshop.
Audition required.

Pre-Professional Musical Theatre is a course where students will synthesize and refine performance techniques specific to musical theatre through multidisciplinary lenses; including, but not limited to: direction, arts administration, and various professional pursuits. Through observing and participating in various activities, students will create classical and contemporary musical theatre works, structures, and content with an overall emphasis on performance and professional pursuits. Collegiate and professional audition portfolios will be developed. Participation in academy-based performances may be required to receive credit for this course. This course may be used to satisfy the graduation requirement for a credit in fine arts.

This course requires a student materials fee as listed in FCPS Notice 5922.

Acting Methods – Fairfax Academy
Academy course enrollment must be approved by the appropriate Academy.

(144026) Grade: 10, 11, 12 Credit: one
Prerequisite: Audition recommended, interview required.

Acting Methods is a course where students will explore performance techniques specific to acting for stage and film including actor preparation, methods, characterization, vocal production, movement, and theatre vocabulary. Students will examine classic and contemporary theatre styles, structure, and content related to audition techniques and portfolio development. Participation in academy-based performances may be required to receive credit for this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

FINE ARTS: VISUAL ARTS

Studio Art & Design 1 (912000)
Grade: 9, 10, 11, 12 Credit: one

Studio Art & Design 1 provides opportunities to explore a variety of exciting opportunities and materials to inform the artmaking process. Learn to think conceptually and realize potential as a creative and critical thinker in order to meet the challenges of

21st Century living. Explore personal interests related to the theme of perceptions of place while developing skills in the areas of drawing, painting, printmaking, ceramics, sculpture, and digital media. Course content includes art production, art appreciation, and studies in visual culture.

This course requires a student materials fee as listed in FCPS Notice 5922.

Studio Art & Design 2 (913000)
Grade: 10, 11, 12 Credit: one
Prerequisite: Studio Art & Des 1

Studio Art & Design 2 provides opportunities to cultivate previously developed artistic knowledge and skills learned in Studio Art & Design 1. Explore new combinations and possibilities in the use of two-dimensional and three-dimensional media including technological applications. Investigate contemporary topics, artistic expression, and design related to the theme of a sense of self. Ask questions, solve problems, create products, and communicate ideas in innovative ways. Course content includes art production, design thinking, art history, criticism, aesthetics, and studies in visual culture.

This course requires a student materials fee as listed in FCPS Notice 5922.

Studio Art & Design 3 (914000)
Grade: 11, 12 Credit: one
Prerequisite: Studio Art & Des 2

Studio Art & Design 3 provides opportunities to expand and improve artistic understanding and skills by using creative processes. Develop an individual style and voice to communicate ideas. Articulate responses to social and contemporary issues through the integration of traditional and electronic media. Present artworks in diverse formats. Course content includes art production, design application, art history, criticism, aesthetics, and studies in visual culture.

This course requires a student materials fee as listed in FCPS Notice 5922.

Studio Art & Design 4 (914700)
Grade: 12 Credit: one
Prerequisite: Studio Art & Des 3

Studio Art & Design 4, portfolio preparation, provides opportunities to engage in advanced study of art production, art history, aesthetics, and art criticism while maintaining the attitude and self-discipline of a working artist. Practice and exhibit technical proficiency and personal style, work in advanced media, and apply professional presentation techniques to develop and prepare artwork for exhibitions and portfolios. Demonstrate quality, breadth of experience, and sustained investigation in a body of work and select work for personal exhibitions, exit portfolios, and presentation portfolios.

This course requires a student materials fee as listed in FCPS Notice 5922.

Photography 1 (919311)
Grade: 9, 10, 11, 12 Credit: one

Photography 1 provides opportunities to explore and practice standard black and white photographic processes through the use of cameras, films, light effects, and the application of basic darkroom techniques. Explore and practice digital photographic processes. Produce meaningful photographs that express ideas about experiences and observations related to the theme of perceptions of place. Study the history of photography and the work of well known photographers to inform artmaking. Develop a beginning portfolio.

This course requires a student materials fee as listed in FCPS Notice 5922.

Photography 2 (919411)
Grade: 10, 11, 12 Credit: one
Prerequisite: Photography 1

Photography 2 provides opportunities to expand on the study of black and white photography and digital processes while creating original artworks related to the theme of a sense of self. Acquire and apply in-depth knowledge of photographic equipment, films, and specialized processes to include digital applications. Investigate leading exponents, equipment, and techniques from an historical perspective. Learn to critique and evaluate personal artwork and photographic works of others. Examine photography and its relationship to other art forms. Prepare a portfolio of meaningful artworks that demonstrate expressive content and quality of craftsmanship.

This course requires a student materials fee as listed in FCPS Notice 5922.

Photography 3 (919511)
Grade: 11, 12 Credit: one
Prerequisite: Photography 2

Photography 3 provides opportunities to explore and respond to social and contemporary issues through an in-depth exploration of film and digital photography processes. Explore various career paths in photography such as Photojournalism, Commercial, and Fine Art Photography. Apply professional exhibition techniques to present work. Develop a quality portfolio that effectively illustrates a personal voice.

This course requires a student materials fee as listed in FCPS Notice 5922.

Photography 4 (919914)
Grade: 12 Credit: one
Prerequisite: Photography 3

Photography 4, portfolio preparation, provides opportunities to engage in advanced study of photographic processes. Practice the attitude and self-discipline of a working artist. Apply professional exhibition techniques to exhibit personal work. Meet expectations by demonstrating initiative and

commitment to communication of ideas through the use of the photographic medium. Prepare a final, required portfolio evidencing technical proficiency, quality, breadth of experience, and sustained investigation.

This course requires a student materials fee as listed in FCPS Notice 5922.

Digital Art 1 (918011)
Grade: 9, 10, 11, 12 Credit: one

Digital Art 1 provides opportunities to use technology to think creatively, solve visual problems, and create personally expressive, original artworks related to the theme of perceptions of place. Develop expertise in the use of computers, scanners, and digital cameras for artmaking. Use Adobe Photoshop, Adobe Illustrator, Adobe Animate, 3D and video software for motion graphics/animation, graphic design, and digital imaging. Make interdisciplinary connections through study of artists, designers, and events in cultural, historical, and contemporary frameworks. Learn to address ethical issues concerning computer generated imagery. No prior computer experience is required.

This course requires a student materials fee as listed in FCPS Notice 5922.

Digital Art 2 (918111)
Grade: 10, 11, 12 Credit: one
Prerequisite: Digital Art 1

Digital Art 2 provides opportunities to expand knowledge in the application of computer hardware and software to create personally expressive, original art related to the theme of a sense of self. Solve complex visual problems within the areas of multimedia presentations, motion graphics/animation, graphic design, and digital imaging using Adobe Photoshop, Adobe Illustrator, Adobe Animate, 3D and video software. Make interdisciplinary connections through study of artists, designers, and events in cultural, historical, and contemporary frameworks. Prepare a final, required portfolio for evaluation.

This course requires a student materials fee as listed in FCPS Notice 5922.

Digital Art 3 (918211)
Grade: 11, 12 Credit: one
Prerequisite: Digital Art 2 or Animation

Digital Art 3 provides opportunities to expand knowledge and abilities in the application of hardware and software to create personally expressive, original art in response to social and contemporary issues. Create visual solutions using a variety of media, including motion graphics/animation, graphic design, game development, web design and print design. Make interdisciplinary connections through study of artists, designers, and events in cultural, historical, and contemporary frameworks. A final portfolio or demo reel is required for evaluation.

This course requires a student materials fee as listed in FCPS Notice 5922.

Digital Art 4 (919911)
Grade: 12 Credit: one
Prerequisite: Digital Art 3

Digital Art 4, portfolio preparation, provides opportunities to engage in advanced study and application of digital artmaking while developing the attitude and self-discipline of a working artist. Integrate advanced knowledge of software with creative thinking skills and interdisciplinary connections to produce a portfolio and digital exhibition of original artworks that show evidence of expressive content, quality, breadth of experience, and sustained investigation.

This course requires a student materials fee as listed in FCPS Notice 5922.

3D Art Ceramics 1 (917560)
Grade: 9, 10, 11, 12 Credit: one

Ceramics 1 is a variation of 3D Studio Art in which students explore ceramics materials and processes to develop unique, meaningful artworks related to perceptions of place. Explore contemporary approaches and develop traditional skills and techniques in ceramics, express meaningful ideas, explore ceramic artists and art movements and develop an understanding of the role of ceramics in visual culture. Compile and maintain a required ceramic art portfolio.

This course requires a student materials fee as listed in FCPS Notice 5922.

3D Art Ceramics 2 (917660)
Grade: 10, 11, 12 Credit: one
Prerequisite: Ceramics 1 3D Art

Ceramics 2, a variation of 3D Studio Art 2, provides opportunities to push the boundaries of ceramics materials to develop unique, meaningful artworks related to a sense of self. Explore exciting new approaches and processes while refining ceramics skills and techniques. Cultivate creativity and discover new artists and art movements that expand understanding of art and visual culture. Maintain and refine a required ceramics portfolio.

This course requires a student materials fee as listed in FCPS Notice 5922.

3D Studio Art 3 (919713)
Ceramics 3
Grade: 11, 12 Credit: one
Prerequisite: Ceramics 2

3D Studio Art 3 provides opportunities to strengthen and broaden knowledge and skills related to 3D media. Try new and advanced techniques, develop a repertoire of strategies to strengthen creative and critical thinking, and aesthetic perception. Engage in

problem solving, experimentation, and independent research while investigating historical and contemporary styles of three-dimensional art, and creating original art in response to social and contemporary issues. Develop professional exhibition techniques and compile a portfolio that demonstrates expressive content, quality, concentration, and breadth of experience.

This course requires a student materials fee as listed in FCPS Notice 5922.

3D Studio Art 4 (919714)
Ceramics 4
Grade: 12 Credit: one
Prerequisite: 3D Studio Art 3

3D Studio Art 4 is a portfolio preparation level course. Develop a portfolio of work based on a student selected area of artistic investigation while mastering 3D media skills and techniques. Engage in a personal process of discovery while advancing the study of 3D studio art processes. Find your personal voice to communicate your unique ideas, while developing advanced technical proficiency, personal style, and problem-solving skills. Compile a final portfolio and prepare a culminating exhibition of personal artwork.

This course requires a student materials fee as listed in FCPS Notice 5922.

3D Art Jewelry 1 (919751)
Grade: 9, 10, 11, 12 Credit: one

Jewelry 1, a variation of 3D Studio Art 1, provides opportunities to practice and apply three-dimensional design techniques to jewelry making. Explore a variety of materials and approaches to create exciting jewelry related to the theme of perceptions of place. Think creatively and critically to meet challenges and solve problems in innovative ways. Study the history of jewelry making and leading contemporary artisans to inform personal development of the craft. Compile and maintain a required jewelry making portfolio.

This course requires a student materials fee as listed in FCPS Notice 5922.

3D Art Jewelry 2 (919752)
Grade: 10, 11, 12 Credit: one
Prerequisite: Jewelry 1 3D Art

Jewelry 2, a variation of 3D Studio Art 2, provides opportunities to push the boundaries of jewelry materials and develop unique, meaningful artworks related to a sense of self. Pursue an in-depth study of jewelry media and forms. Explore exciting new approaches and processes while refining traditional skills and techniques. Cultivate creativity and discover new jewelry artists and styles that expand understanding of jewelry, art, and visual culture. Maintain and refine a required jewelry portfolio.

This course requires a student materials fee as listed in FCPS Notice 5922.

3D Art Jewelry (919765/919766)
Grade: 11, 12 Credit: one
Prerequisite: Jewelry 2

Jewelry, a variation of 3D Studio Art, provides opportunities to practice and apply three-dimensional design techniques to jewelry making. Explore a variety of materials and approaches to create exciting jewelry related to the theme of perceptions of place. Think creatively and critically to meet challenges and solve problems in innovative ways. Study the history of jewelry making and leading contemporary artisans to inform personal development of the craft. Compile and maintain a required jewelry making portfolio.

This course requires a student materials fee as listed in FCPS Notice 5922.

IB Visual Arts SL 1 (914908)
Grade: 11 Credit: one / weighted +1.0

Students in IB Visual Arts: Standard Level Year 1 engage in advanced study of art processes, aesthetic issues, art criticism, and art history and culture while maintaining the self-discipline of the working artist. They exhibit technical proficiency and personal style while working in advanced media, and arrange an art show of their own work using professional exhibiting techniques. A culminating portfolio evidencing quality, a thematic series, breadth of work, progress over time, and the highest level of achievement will be required. An investigation workbook which evidences critical research in an area agreed upon by the teacher and the student is required.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved. This course requires a student materials fee as listed in FCPS Notice 5922.

IB Visual Arts HL1 (914909)
Grade: 11 Credit: one / weighted +1.0

Students in IB Visual Arts: Higher Level Year 1 engage in advanced study of art processes, aesthetic issues, art criticism, and art history and culture while maintaining the self-discipline of the working artist. They exhibit technical proficiency and personal style while working in advanced media, and arrange an art show of their own work using professional exhibiting techniques. A culminating portfolio evidencing quality, a thematic series, breadth of work, progress over time, and the highest level of achievement will be required. An investigation workbook which evidences critical research in an area agreed upon by the teacher and the student is required. Designed for motivated visual arts students who may wish to pursue the visual arts at the university or college level.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved. This course requires a student materials fee as listed in FCPS Notice 5922.

IB Visual Arts SL 2 (915108)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: IB Visual Arts SL 1

Students in IB Visual Arts: Standard Level Year 2 engage in advanced study of art processes, aesthetic issues, art criticism, and art history and culture while maintaining the self-discipline of the working artist. They exhibit technical proficiency and personal style while working in advanced media, and arrange an art show of their own work using professional exhibiting techniques. A culminating portfolio evidencing quality, a thematic series, breadth of work, progress over time, and the highest level of achievement will be required. An investigation workbook which evidences critical research in an area agreed upon by the teacher and the student is required.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved. This course requires a student materials fee as listed in FCPS Notice 5922.

IB Visual Arts HL 2 (915109)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: IB Visual Arts HL 1

Students in IB Visual Arts: Higher Level Year 2 engage in advanced study of art processes, aesthetic issues, art criticism, and art history and culture while maintaining the self-discipline of the working artist. They exhibit technical proficiency and personal style while working in advanced media, and arrange an art show of their own work using professional exhibiting techniques. A culminating portfolio evidencing quality, a thematic series, breadth of work, progress over time, and highest level of achievement will be required. An investigation workbook which evidences critical research in an area agreed upon by the teacher and the student is required. Designed for motivated visual arts students who may wish to pursue the visual arts at the university or college level.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved. This course requires a student materials fee as listed in FCPS Notice 5922.

GENERAL

Ath & Sports Ldsp 1 (980860)
Grade: 9, 10, 11, 12 Credit: one

This course provides Athletic and Sports leadership training to interested students. It is recommended for students that have a desire to learn about athletic management / coaching and promotion. The course includes understanding leadership, assessment of leadership styles, planning and organization skills, relationship building and problem solving. Focus will be placed on organization, time management, activities promotion, athletic communication, character education, and becoming a community liaison.

Ath & Sports Ldsp 2 (980855)
Grade: 10, 11, 12 Credit: one
Prerequisite: Ath & Sports Ldsp 1

This course provides Athletic and Sports leadership training to interested students. It is recommended for students that have a desire to learn about athletic management / coaching and promotion. The course includes understanding leadership, assessment of leadership styles, planning and organization skills, relationship building and problem solving. Focus will be placed on organization, time management, activities promotion, athletic communication, character education, and becoming a community liaison.

Ath & Sports Ldsp 3 (980856)
Grade: 11, 12 Credit: one
Prerequisite: Ath & Sports Ldsp 2

This course provides Athletic and Sports leadership training to interested students. It is recommended for students that have a desire to learn about athletic management / coaching and promotion. The course includes understanding leadership, assessment of leadership styles, planning and organization skills, relationship building and problem solving. Focus will be placed on organization, time management, activities promotion, athletic communication, character education, and becoming a community liaison.

Ath & Sports Ldsp 4 (980857)
Grade: 12 Credit: one
Prerequisite: Ath & Sports Ldsp 3

This course provides Athletic and Sports leadership training to interested students. It is recommended for students that have a desire to learn about athletic management / coaching and promotion. The course includes understanding leadership, assessment of leadership styles, planning and organization skills, relationship building and problem solving. Focus will be placed on organization, time management, activities promotion, athletic communication, character education, and becoming a community liaison.

AVID 9 (982809)
Grade: 9 Credit: one

This course is designed to support motivated, capable students in pursuing a rigorous course of high school study leading to acceptance to and success in a four-year college or university. Through a variety of instructional techniques, students develop skills in higher-level thinking, writing across the curriculum, and reading strategies for accessing challenging course material. Students develop time management, note taking, research, organization, and other skills fundamental to success in higher-level mathematics, social studies, English, science, and world language courses. Students participate in college, career, and cultural exploration activities, including field trips. Students must submit an application to be considered for the AVID program.

AVID 10 (982810)
Grade: 10 Credit: one

This course is designed to support motivated, capable students in pursuing a rigorous course of high school study leading to acceptance to and success in a four-year college or university. Through a variety of instructional techniques, students develop skills in higher-level thinking, writing across the curriculum, and reading strategies for accessing challenging course material. Students develop time management, note taking, research, organization, and other skills fundamental to success in higher-level mathematics, social studies, English, science, and world language courses. Students participate in college, career, and cultural exploration activities, including field trips. Students must submit an application to be considered for the AVID program.

AVID 11 (982811)
Grade: 11 Credit: one

This course is designed to support motivated, capable students in pursuing a rigorous course of high school study leading to acceptance to and success in a four-year college or university. Through a variety of instructional techniques, students develop skills in higher-level thinking, writing across the curriculum, and reading strategies for accessing challenging course material. Students develop time management, note taking, research, organization, and other skills fundamental to success in higher-level mathematics, social studies, English, science, and world language courses. Students participate in college, career, and cultural exploration activities, including field trips. Students must submit an application to be considered for the AVID program.

AVID 12 (982812)
Grade: 12 Credit: one

This course is designed to support motivated, capable students in pursuing a rigorous course of high school study leading to acceptance to and success in a four-year college or university. Through a variety of instructional techniques, students develop skills in higher-level thinking, writing across the curriculum, and reading strategies for accessing challenging course material. Students develop time management, note taking, research, organization, and other skills fundamental to success in higher-level mathematics, social studies, English, science, and world language courses. Students participate in college, career, and cultural exploration activities, including field trips. Students must submit an application to be considered for the AVID program.

Econ & Pers Finance – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(612099) Grade: 9, 10, 11, 12 Credit: one

Instruction in economics and personal finance prepares students to function effectively as consumers, savers, investors, entrepreneurs, and active citizens. Students learn how economies and

markets operate and how the United States' economy is interconnected with the global economy. On a personal level, students learn that their own human capital (knowledge and skills) is their most valuable resource. Beginning with students entering ninth grade in fall 2011, one standard unit of credit in Economics and Personal Finance is required for graduation. Students who choose an EPF option that requires payment, will not be reimbursed should additional options become available.

Econ & Pers Finance HN (612036)
Grade: 9, 10, 11, 12 Credit: one / weighted +0.5

The Honors EPF course expands and enriches the standard Economics and Personal Finance curriculum by incorporating project based learning and curriculum extensions that will require students to analyze the costs and benefits of economic policies to society and to themselves. In addition to being able to define, identify, and understand financial and economic systems, students in the honors course will analyze the differences between domestic and global policies and the evolution, and oftentimes unintended consequences, of those policies. Students will be able to explain the operation of current financial and economic systems, anticipate advantages and disadvantages of evolving systems, and consider how they can best take advantage of these changes to ensure economic security for our nation and for themselves.

Econ & Pers Finance HN – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(612097)
Grade: 9, 10, 11, 12 Credit: one / weighted +0.5

The Honors EPF course expands and enriches the standard Economics and Personal Finance curriculum by incorporating project based learning and curriculum extensions that will require students to analyze the costs and benefits of economic policies to society and to themselves. In addition to being able to define, identify, and understand financial and economic systems, students in the honors course will analyze the differences between domestic and global policies and the evolution, and oftentimes unintended consequences, of those policies. Students will be able to explain the operation of current financial and economic systems, anticipate advantages and disadvantages of evolving systems, and consider how they can best take advantage of these changes to ensure economic security for our nation and for themselves.

IB Theory of Knowledge (982008)
Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Enrollment in the IB Diploma Program

The IB Theory of Knowledge (TOK) course challenges students in the areas of critical thinking and integration of knowledge. The focus of the TOK course is studying what we know in the various fields of knowledge and how we know it. Students are led to make connections among their classroom and non-classroom knowledge and experience, and they

examine the ethics, value judgments, and belief systems of the various disciplines. Students develop a critical awareness of the fields of knowledge; study the procedures, processes, and methodologies of each field; recognize the biases inherent in each discipline; understand and appreciate the importance of inquiry as a basis for knowledge; and apply standards of logic and reasoned argument to intellectual problems. Topics of study include knowledge questions, areas of knowledge (mathematics, natural sciences, human sciences, and history, and the arts), the four-element knowledge framework, and understanding value judgment, bias, and culture across disciplines.

IB Theory of Knowledge (982018)
After School TOK
Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Enrollment in the IB Diploma Program

The IB Theory of Knowledge (TOK) course challenges students in the areas of critical thinking and integration of knowledge. The focus of the TOK course is studying what we know in the various fields of knowledge and how we know it. Students are led to make connections among their classroom and non-classroom knowledge and experience, and they examine the ethics, value judgments, and belief systems of the various disciplines. Students develop a critical awareness of the fields of knowledge; study the procedures, processes, and methodologies of each field; recognize the biases inherent in each discipline; understand and appreciate the importance of inquiry as a basis for knowledge; and apply standards of logic and reasoned argument to intellectual problems. Topics of study include knowledge questions, areas of knowledge (mathematics, natural sciences, human sciences, and history, and the arts), the four-element knowledge framework, and understanding value judgment, bias, and culture across disciplines.

IB Theory of Knowledge (982062)
Grade: 11 Credit: one-half / weighted +1.0
Prerequisite: Enrollment in the IB Diploma Program

The IB Theory of Knowledge (TOK) course challenges students in the areas of critical thinking and integration of knowledge. The focus of the TOK course is studying what we know in the various fields of knowledge and how we know it. Students are led to make connections among their classroom and non-classroom knowledge and experience, and they examine the ethics, value judgments, and belief systems of the various disciplines. Students develop a critical awareness of the fields of knowledge; study the procedures, processes, and methodologies of each field; recognize the biases inherent in each discipline; understand and appreciate the importance of inquiry as a basis for knowledge; and apply standards of logic and reasoned argument to intellectual problems. Topics of study include knowledge questions, areas of knowledge (mathematics, natural sciences, human sciences, and history, and the arts), the four-element knowledge framework, and understanding value judgment, bias, and culture across disciplines.

IB Theory of Knowledge – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(982099) Grade: 11, 12

Credit: one / weighted +1.0

Prerequisite: Enrollment in the IB Diploma Program
Online Campus course enrollment must be approved by the Online Campus.

The IB Theory of Knowledge (TOK) course challenges students in the areas of critical thinking and integration of knowledge. The focus of the TOK course is studying what we know in the various fields of knowledge and how we know it. Students are led to make connections among their classroom and non-classroom knowledge and experience, and they examine the ethics, value judgments, and belief systems of the various disciplines. Students develop a critical awareness of the fields of knowledge; study the procedures, processes, and methodologies of each field; recognize the biases inherent in each discipline; understand and appreciate the importance of inquiry as a basis for knowledge; and apply standards of logic and reasoned argument to intellectual problems. Topics of study include knowledge questions, areas of knowledge (mathematics, natural sciences, human sciences, and history, and the arts), the four-element knowledge framework, and understanding value judgment, bias, and culture across disciplines.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

Internship (984200)
Grade: 10, 11, 12 Credit: one

Prerequisite: The internship must be school-coordinated, related to the student's career goals and interests, integrated with instruction, and performed in partnership with local businesses and organizations. It is the student's responsibility to secure Internships to be eligible for this work-based learning course. Internship placements are not provided by FCPS.

Corequisite: Credit for internship experience during the school year is based upon the student's successful completion of both the related CTE course and the internship course. Continuous, satisfactory employment throughout the school year with a minimum of 280 internship hours (70 hours per quarter). Under the Teacher's supervision, training plans and agreements are completed in collaboration with internship students, the course-connected CTE teacher, the employer/internship sponsor, and the parent/guardian.

Internship is a High-Quality Work-Based Learning (HQWBL) experience that places the student in a real workplace environment. This placement allows the student to develop and practice career-related knowledge and skills for a specific career field related to their career interests, abilities, and goals. Internships may be paid or unpaid, are connected to

classroom learning in Career and Technical Education (CTE) courses and are accompanied by structured reflection activities. Student interns are guided by a formal, written training plan that defines specific academic and workplace skills to be mastered. Students must enroll in a CTE course with a focus on specific career paths to enroll in the Internship course.

Air Force JROTC 1 – Chantilly Academy
Academy course enrollment must be approved by the appropriate Academy.

(791311) Grade: 9, 10, 11, 12 Credit: one
No transportation is provided.

This full-year course is the first in a sequence that teaches citizenship, character development, leadership, teamwork, self-discipline, critical thinking, communication, and organizational skills with a study of the fundamental aspects of health, wellness, and physical fitness. Course study includes an overview of aviation history, as well as the opportunity to study military customs, drills, and the proper wear of the Air Force uniform. The Air Force JROTC program provides a four-year, sequential program of instruction for all students in grades 9 - 12.

Air Force JROTC 2 – Chantilly Academy
Academy course enrollment must be approved by the appropriate Academy.

(791611) Grade: 10, 11, 12 Credit: one
Prerequisite: AFJROTC 1

No transportation is provided.

This full-year course builds upon the skills and knowledge taught in AFJROTC 1. Students continue their study of citizenship, character development, leadership, teamwork, drills, health, wellness, and physical fitness. Student leadership topics include individual and group behaviors, communication skills, and leadership principles; additionally, students are afforded the opportunity to hold positions of greater responsibility in the planning and execution of cadet corps projects. This course also includes a study of aircraft flight, basic aerodynamics, aviation weather, navigation, and the effects of flight on the human body. The Air Force JROTC program provides a four-year, sequential program of instruction for all students in grades 9 - 12.

Air Force JROTC 3 HN – Chantilly Academy
Academy course enrollment must be approved by the appropriate Academy.

(791811) Grade: 11, 12 Credit: one / weighted +0.5
Prerequisite: Air Force JROTC 2

No transportation is provided.

This full-year course builds upon the skills and knowledge taught in AFJROTC 2. Leadership education includes leadership concepts, ethics for the cadet corps and life, management techniques, and stress management. Students continue their study of

health, wellness, and physical fitness. These students are the leaders in the planning and execution of cadet corps activities and projects. This course provides an overview of the United States government, other systems of government, and space exploration. Students will practice oral and written communication skills on relevant space and Air Force topics. The Air Force JROTC program provides a four-year, sequential program of instruction for all students in grades 9 - 12.

Air Force JROTC 4 HN – Chantilly Academy
Academy course enrollment must be approved by the appropriate Academy.

(791911) Grade: 12 Credit: one / weighted +0.5
Prerequisite: Air Force JROTC 3

No transportation is provided.

Students will demonstrate leadership skills as a role model, as a mentor, and as a coach. While serving in leadership positions, students will assist the instructors in managing the Corps of Cadets, with instruction in communication skills, drills, and proper wear and respect for the Air Force uniform. This course affords students the opportunity to put leadership theories into practice by using their communication, decision-making, managerial, and organizational skills. The course also includes career exploration and reviews possible life experiences in the Air Force. The Air Force JROTC program provides a four-year, sequential program of instruction for all students in grades 9 - 12.

Army JROTC 1 – Edison Academy
Academy course enrollment must be approved by the appropriate Academy.

(791325) Grade: 9, 10, 11, 12 Credit: one

This course is the first in a sequence that combines the development of critical thinking, planning, communication, and organizational skills with a study of the fundamental aspects of American citizenship, map reading, first aid, physical fitness, and an overview of American history. Students learn of the dangers of substance abuse and the importance of goal-setting. Additionally, they have the opportunity to study Army customs, consumer education and budgeting, ceremonial drill, and current events. Students may be granted pupil placement if course enrollment is desired. Army JROTC program provides a four-year, sequential program of instruction that emphasizes academic preparation, citizenship, leadership, and character development for all students in grades 9 - 12. The sequence of courses is progressive and builds upon the previous year's curriculum.

Army JROTC 2- Edison Academy

Academy course enrollment must be approved by the appropriate Academy.

(791625) Grade: 10, 11, 12 Credit: one

Prerequisite: Army JROTC 1

This full-year course builds upon the skills and knowledge taught in LET 1. Students continue their study of citizenship by examining ethical behavior and the principles of participatory democracy. They develop team-building skills while learning the fundamentals of drill. Students study leadership and management qualities, first aid skills, intermediate map-reading skills, American history and different aspects of technology and communication. Students may be granted pupil placement if course enrollment is desired. Army JROTC program provides a four-year, sequential program of instruction that emphasizes academic preparation, citizenship, leadership, and character development for all students in grades 9 - 12. The sequence of courses is progressive and builds upon the previous year's curriculum.

Army JROTC 3 HN – Edison Academy

Academy course enrollment must be approved by the appropriate Academy.

(791825) Grade: 11, 12

Credit: one / weighted +0.5

Prerequisite: Army JROTC 2

LET 3 students begin to apply leadership and leadership assessment principles, heighten their communication skills, and assist in teaching basic military skills such as map reading, first aid, and drill. Students are given the opportunity to solve different types of problems and supervise subordinates. This program is only offered on-site at West Potomac, Hayfield, Edison, and South Lakes High Schools and Lake Braddock Secondary. Students may be granted pupil placement if course enrollment is desired. Army JROTC program provides a four-year, sequential program of instruction that emphasizes academic preparation, citizenship, leadership, and character development for all students in grades 9 - 12. The sequence of courses is progressive and builds upon the previous year's curriculum.

Army JROTC 4 HN – Edison Academy

Academy course enrollment must be approved by the appropriate Academy.

(791925) Grade: 12

Credit: one / weighted +0.5

Prerequisite: Army JROTC 3

LET 4 gives students the opportunities to lead, supervise, teach and coach younger students. They apply previously learned knowledge and principles of communication, leadership, ethical reasoning, and decision-making. Students enhance their knowledge of American history and learn to market themselves for a job. This program is only offered on-site at West Potomac, Hayfield, Edison, and South Lakes High Schools and Lake Braddock Secondary. Students may be granted pupil placement if course enrollment is desired. Army JROTC program provides a four-year,

sequential program of instruction that emphasizes academic preparation, citizenship, leadership, and character development for all students in grades 9 - 12. The sequence of courses is progressive and builds upon the previous year's curriculum.

Leadership Training 1

(980800)

Grade: 9, 10, 11, 12

Credit: one

This course provides leadership training to interested students. It is especially appropriate for student body officers, organizational leaders, and class officers. The course includes understanding leadership, assessment of leadership styles, planning and organization skills, relationship building and problem solving. Focus will be placed on organization, time management, election processes, financial planning, opinion surveys, communication techniques, and becoming a community liaison. Student government and class activities will be the basis around which most of the coursework is designed.

Leadership Training 2

(980812)

Grade: 10, 11, 12

Credit: one

This course provides leadership training to interested students. It is especially appropriate for student body officers, organizational leaders, and class officers. The course includes understanding leadership, assessment of leadership styles, planning and organization skills, relationship building and problem solving. Focus will be placed on organization, time management, election processes, financial planning, opinion surveys, communication techniques, and becoming a community liaison. Student government and class activities will be the basis around which most of the coursework is designed.

Leadership Training 3

(980813)

Grade: 11, 12

Credit: one

This course provides leadership training to interested students. It is especially appropriate for student body officers, organizational leaders, and class officers. The course includes understanding leadership, assessment of leadership styles, planning and organization skills, relationship building and problem solving. Focus will be placed on organization, time management, election processes, financial planning, opinion surveys, communication techniques, and becoming a community liaison. Student government and class activities will be the basis around which most of the coursework is designed.

Leadership Training 4

(980814)

Grade: 12

Credit: one

This course provides leadership training to interested students. It is especially appropriate for student body officers, organizational leaders, and class officers. The course includes understanding leadership, assessment of leadership styles, planning and organization skills, relationship building and problem solving. Focus will be placed on organization, time management, election processes, financial planning, opinion surveys, communication techniques, and becoming a community liaison. Student government

and class activities will be the basis around which most of the coursework is designed.

Strats for Success – ELP Level 1

(788900)

Grade: 9, 10, 11, 12

Credit: one

This elective course is designed to provide support to a student in core curricular areas and to provide direct instruction in specific learning strategies, study skills, time management, organization, and self-advocacy skills. Time is also allotted to address individual areas of need. While students may receive assistance on core curricular assignments, the course is not designed to serve as a study hall. Students enrolled in the course receive the equivalent of one period of instruction each day and earn an elective credit. This course may be taught for an elective credit all four years or more, as appropriate. Students successfully completing two years of this course will satisfy the sequential elective requirement for the Advanced or Standard Diploma.

Teachers for Tmrw 1 – Edison Academy

Academy course enrollment must be approved by the appropriate Academy.

(906226)

Grade: 11, 12

Credit: one

The Teachers for Tomorrow course introduces juniors and seniors to a career in education. Students build a foundation for teaching; learn the history, structure, and governance of teaching; apply professional teaching techniques in classroom and field experiences; and reflect on their teaching experiences. 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 (HQWBL) 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.

Teachers for Tmrw 1 DE – Edison Acad

Academy course enrollment must be approved by the appropriate Academy.

(9062DA)

Grade: 11, 12

Credit: one / weighted +1.0

The Teachers for Tomorrow course introduces juniors and seniors to a career in education. Students build a foundation for teaching; learn the history, structure, and governance of teaching; apply professional teaching techniques in classroom and field experiences; and reflect on their teaching experiences. 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 (HQWBL) 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.

To enroll in this course, students must meet the

college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment.

Teachers for Tmrw 2 – Edison Academy Academy course enrollment must be approved by the appropriate Academy.

(907226) Grade: 12 Credit: one
Prerequisite: Teachers for Tomorrow 1 (906226 or 906200)

In this advanced level course, students will continue to pursue their interest in careers in education. Students examine careers in education, observe professional practice, and apply professional standards and educational theory. In an authentic practicum experience, students will be able to teach lessons, manage classrooms, create learning opportunities, and build their professional portfolio in the process. 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 (HQWBL) 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.

Teachers for Tmrw 2 DE – Edison Acad Academy course enrollment must be approved by the appropriate Academy.

(9072DA) Grade: 12
Credit: one / weighted +1.0

In this advanced level course, students will continue to pursue their interest in careers in education. Students examine careers in education, observe professional practice, and apply professional standards and educational theory. In an authentic practicum experience, students will be able to teach lessons, manage classrooms, create learning opportunities, and build their professional portfolio in the process. 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 (HQWBL) 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.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment.

Teachers for Tmrw 2 – Online Campus Online Campus course enrollment must be approved by the Online Campus.

(907299) Grade: 12 Credit: one

Prerequisite: Teachers for Tomorrow 1
In this advanced level course, students will continue to pursue their interest in careers in education. Students examine careers in education, observe professional practice, and apply professional standards and educational theory. In an authentic practicum experience, students will be able to teach lessons, manage classrooms, create learning opportunities, and build their professional portfolio in the process. 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 (HQWBL) 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.

HEALTH and PHYSICAL EDUCATION

Health & PE 9 (730000) Grade: 9 Credit: one

Students demonstrate the ability to use basic skills, strategies, and tactics in a variety of lifetime physical activities. Students will continue to gain and demonstrate more specialized knowledge in identifying and applying key movement concepts and principles. In health education students integrate a variety of health concepts, skills, and behaviors to develop plans for their lifelong health and fitness goals. These include awareness and consequences of risky behaviors, disease prevention, overall wellness, and identification of community health resources. They see themselves as having an active role in creating a healthy lifestyle for themselves, for their families, and for the community. Instruction in first aid, cardiopulmonary resuscitation (CPR), and automated external defibrillation (AED) is included.

Health & PE 9 – Online Campus (730099) Online Campus course enrollment must be approved by the Online Campus. Grade: 9 Credit: one

Students demonstrate the ability to use basic skills, strategies, and tactics in a variety of lifetime physical activities. Students will continue to gain and demonstrate more specialized knowledge in identifying and applying key movement concepts and principles. In health education students integrate a variety of health concepts, skills, and behaviors to develop plans for their lifelong health and fitness goals. These include awareness and consequences of risky behaviors, disease prevention, overall wellness, and identification of community health resources. They see themselves as having an active role in creating a healthy lifestyle for themselves, for their families, and for the community. Instruction in first aid, cardiopulmonary resuscitation (CPR), and automated external defibrillation (AED) is included.

Health & PE 10 (740500) Grade: 10 Credit: one **Prerequisite:** Successful completion of Health and Physical Education, grade 9

Students demonstrate competency in lifelong physical activities and create, implement, self-assess, and modify a personal fitness plan. Students develop the ability to understand and anticipate how physical activity interests and abilities change through their lifetime. Students continue their learning of health education through in-depth exploration of health topics, health-related careers, and continued development of personal wellness plans. The course includes one quarter of instruction in classroom driver education during which students gain knowledge to become proficient users of the highway transportation system. The 90-minute parent/teen traffic safety presentation (Partner's for Safe Teen Driving) is offered to fulfill the requirements of juvenile licensing. Grades from all quarters are averaged to determine the final course grade.

Health & PE 10 – Online Campus (740599) Online Campus course enrollment must be approved by the Online Campus.

Grade: 10 Credit: one
Prerequisite: Successful completion of Health and Physical Education 9

Students demonstrate competency in lifelong physical activities and create, implement, self-assess, and modify a personal fitness plan. Students develop the ability to understand and anticipate how physical activity interests and abilities change through their lifetime. Students continue their learning of health education through in-depth exploration of health topics, health-related careers, and continued development of personal wellness plans. The course includes one quarter of instruction in classroom driver education during which students gain knowledge to become proficient users of the highway transportation system. The 90-minute parent/teen traffic safety presentation (Partner's for Safe Teen Driving) is offered to fulfill the requirements of juvenile licensing. Grades from all quarters are averaged to determine the final course grade.

Adapted Health & PE (770002) Grade: 9, 10 Credit: one **Prerequisite:** Students must have an Individual Education Plan (IEP) for course enrollment.

The adapted health and physical education course is a modified version of the general health and physical education course and is designed for students who have IEPs indicating adapted physical education services in a special education setting. Students gain knowledge and skills in a variety of individual and team sports/activities and participate in individualized personal fitness plans to promote an active lifestyle. Activities are individualized based on the student's present level of performance and identified areas of need and designed to maximize participation. Students will participate in modified health education units required of their grade level.

Adapted PE (770003)
Grade: 9, 10 Credit: one
Prerequisite: Students must have an Individual Education Plan (IEP) for course enrollment.

The adapted physical education elective course builds on the knowledge and skills acquired in 9th and 10th grade and is designed for students who have IEPs indicating adapted physical education services in a special education setting. Students gain knowledge and skills in a variety of individual and team sports/activities and participate in individualized personal fitness plans to promote an active lifestyle. Activities are individualized based on the student's present level of performance and identified areas of need and designed to maximize participation. NOTE: This course is not required for students who have completed 9th and 10th grade health and physical education and enrollment should be determined by IEP teams.

Advanced PE Level 1 (751000)
Grade: 11, 12 Credit: one
Prerequisite: Successful completion of grade 9 and grade 10 health and physical education.

Students focus on self-selected lifetime activities as they continue to learn and master/refine skills with emphasis on health and sports-related fitness. Students apply scientific principles to improve performance and personal fitness level. Students identify barriers to participation in physical activity as well as strategies and community resources to support continued participation beyond high school. Students may elect this course in grade 11 or grade 12. Students may not take this course in lieu of Health and Physical Education grade 9 or grade 10 course requirements.

Advanced PE Level 2 (761000)
Grade: 12 Credit: one
Prerequisite: Successful completion of grade 9 and grade 10 health and physical education. Successful completion of Advanced Physical Education Level 1.

Students focus on self-selected lifetime activities as they continue to learn and master/refine skills with emphasis on health and sports related fitness. Students apply scientific principles to improve performance and personal fitness level. Students identify barriers to participation in physical activity as well as strategies and community resources to support continued participation beyond high school. Students may elect this course in grade 12. Students may not take this course in lieu of Health and Physical Education grade 9 or grade 10 course requirements.

Personal Fitness 1 (764011)
Grade: 10, 11, 12 Credit: one
Prerequisite: Successful completion of Health and Physical Education, grade 9

Personal Fitness is an elective physical education course that extends and deepens knowledge of fitness, strength training, physical conditioning, and lifetime health concepts, activities and knowledge to promote health and wellness. Students apply

concepts related to human anatomy, physiology, kinesiology, nutrition, and personal fitness planning to achieve and maintain a health-enhancing level of physical fitness for a lifetime. Students may not take this course in lieu of the grade 9 or grade 10 Health and Physical Education requirements.

Personal Fitness 2 (764012)
Grade: 11, 12 Credit: one
Prerequisite: Successful completion of Personal Fitness - Level 1

Students extend and enrich their knowledge and the application of human anatomy and physiology, kinesiology, nutrition, and personal fitness planning. Students will develop and participate in a personal fitness program to improve cardiorespiratory endurance, flexibility, muscular strength and endurance, and body composition. Students will utilize concepts to assess, plan, monitor, and modify their individual personal fitness plan. Students may not take this course in lieu of the grade 9 or grade 10 Health and Physical Education requirements.

Fitness Instructor HN (764060)
Grade: 12 Credit: one / weighted +0.5
Prerequisite: Successful completion of health and physical education grades 9 and 10. Sports Medicine or Personal Fitness – Level 1 and/or teacher recommendation.

Fitness Instructor extends and enriches students' interdisciplinary body of knowledge grounded in the biological, psychological, physical, and social sciences. Units of study include anatomy and physiology, safety and fitness etiquette, motor learning, exercise programming, nutrition, and professional responsibilities and business fundamentals specific to the personal training profession. Students may not take this course in lieu of the grade 9 or grade 10 Health and Physical Education requirements. Industry certification may be available as part of this course.

Students will have the opportunity to sit for the Certified Personal Trainer (CPT) exam at the end of their senior year.

This course requires a student materials fee as listed in FCPS Notice 5922.

Fitness Instructor HN – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(764097) Grade: 12
Credit: one / weighted +0.5
Prerequisite: Successful completion of health and physical education grades 9 and 10. Sports Medicine or Personal Fitness – Level 1 and/or teacher recommendation

Fitness Instructor extends and enriches students' interdisciplinary body of knowledge grounded in the biological, psychological, physical, and social sciences. Units of study include anatomy and physiology, safety and fitness etiquette, motor learning, exercise programming, nutrition, and professional

responsibilities and business fundamentals specific to the personal training profession. Students may not take this course in lieu of the grade 9 or grade 10 Health and Physical Education requirements. Industry certification may be available as part of this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

MATHEMATICS

Algebra 1 (313000)
Grade: 8, 9, 10, 11 Credit: one
Prerequisite: Mathematics 7 and/or Pre-Algebra

This course extends students' knowledge and understanding of the real number system and its properties through the study of variables, expressions, equations, inequalities, and analysis of data derived from real-world phenomena. Topics include linear equations and inequalities, systems of linear equations, relations, functions, polynomials, and statistics. Graphing utilities and other relevant technology tools will be used when appropriate to support instruction, especially to allow students to explore graphical, numerical, and symbolic relationships.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

Algebra 1 – Online Campus (313099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 8, 9, 10 Credit: one
Prerequisite: Mathematics 7 and/or Pre-Algebra

This course extends students' knowledge and understanding of the real number system and its properties through the study of variables, expressions, equations, inequalities, and analysis of data derived from real-world phenomena. Topics include linear equations and inequalities, systems of linear equations, relations, functions, polynomials. Emphasis is placed on making connections in algebra to geometry. Graphing utilities and other relevant technology tools will be used when appropriate to support instruction, especially to allow students to explore graphical, numerical, and symbolic relationships.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

Algebra 1 HN – Online Campus (313097)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 7, 8, 9 Credit: one / weighted +0.5
Prerequisite: Mathematics 7 and/or Pre-Algebra

The depth and level of understanding expected in Algebra 1 Honors is beyond the scope of Algebra 1. Students are expected to master algebraic mechanics and understand the underlying theory, as well as apply the concepts to real-world situations in a meaningful way. Students extend knowledge and understanding of the real number system and its properties through the study of variables, expressions, equations, inequalities, and the analysis of data from real world phenomena. Emphasis is placed on algebraic connections to arithmetic, and geometry. Graphing utilities and other relevant technology tools will be used when appropriate to support instruction, especially to allow students to explore graphical, numerical, and symbolic relationships. Topics include linear equations and inequalities, systems of linear equations, relations, functions, polynomials.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

Geometry (314300)
Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Algebra 1

In this course, students develop reasoning skills through the exploration of geometric relationships including properties of geometric figures, trigonometric relationships, and mathematical proofs. In this course, students use various types of reasoning, justification, and methods of direct and indirect proof and interpret and determine the validity of conditional statements. There is an emphasis on two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. Technology tools and dynamic geometry applications will be used to assist in teaching and learning.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

Geometry – Online Campus (314399)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Algebra 1

This course emphasizes two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. A variety of applications and some general problem-solving techniques, including algebraic skills, will be used to explore geometric relationships.

Conjectures about properties and relationships are developed inductively and then verified deductively. Graphing utilities, dynamic geometry software, and other relevant technology tools will be used when appropriate to support instruction, especially to allow students to explore graphical, numerical, and symbolic relationships.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

Geometry HN – Online Campus (314397)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 8, 9, 10 Credit: one / weighted +0.5
Prerequisite: Algebra 1

The depth and level of understanding expected in Geometry Honors is beyond the scope of Geometry. This course emphasizes two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. A variety of applications and some general problem-solving techniques, including algebraic skills, will be used to explore geometric relationships. Conjectures about properties and relationships are developed inductively and then verified deductively. Students investigate non-Euclidean geometries, formal logic, and use deductive proofs to verify theorems. Graphing utilities, dynamic geometry software, and other relevant technology tools will be used when appropriate to support instruction, especially to allow students to explore graphical, numerical, and symbolic relationships.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

Geometry HN (314336)
Grade: 8, 9, 10 Credit: one / weighted +0.5
Prerequisite: Algebra 1

The depth and level of understanding expected in Geometry Honors is beyond the scope of Geometry. In this course, students develop reasoning skills through the exploration of geometric relationships including properties of geometric figures, trigonometric relationships, and mathematical proofs. In this course, students use various types of reasoning, justification, and methods of direct and indirect proof and interpret and determine the validity of conditional statements. There is an emphasis on two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. Technology tools and dynamic geometry applications will be used to assist in teaching and learning.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

Alg Func Data Analysis (313400)
Grade: 10, 11, 12 Credit: one
Prerequisite: Algebra 1 and Geometry

This course provides an opportunity for students to develop understanding of the role of mathematics in the world around them. It is designed for students who have completed Algebra 1 and Geometry and may benefit from additional support in their transition to Algebra 2 and higher level mathematics courses. Within the context of mathematical modeling and data analysis, students will study functions and their behaviors, systems of inequalities, probability, experimental design and implementation, and analysis of data. Data will be generated through practical applications arising from science, business, and finance. Students will solve problems that require the formulation of linear, quadratic, exponential, or piecewise-defined equations or a system of equations. Through the investigation of mathematical models and interpretation/analysis of data from relevant, applied contexts and situations, students will strengthen conceptual understandings in mathematics and further develop connections between algebra and statistics. Students should use the language and symbols of mathematics in representations and communication, both orally and in writing, throughout the course.

Algebra 2 (313500)
Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Algebra 1 and Geometry

Algebra 2 provides a thorough treatment of algebraic concepts through the study of functions, polynomials, rational expressions, complex numbers, exponential and logarithmic equations, arithmetic and geometric sequences and series, and data analysis. Emphasis is placed on the mechanics of algebra with real world applications and modeling. A transformational approach to graphing is used with families of related graphs. Numerical, graphical, and algebraic solutions are considered for all problems as applicable. Graphing utilities and other relevant technology tools will be used when appropriate to support instruction, especially to allow students to explore graphical, numerical, and symbolic relationships.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

Algebra 2 – Online Campus (313599)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Algebra 1 and Geometry

Algebra 2 provides a thorough treatment of algebraic concepts through the study of functions, polynomials, rational expressions, complex numbers, exponential and logarithmic equations, arithmetic and geometric sequences and series, and data analysis. Emphasis is placed on the mechanics of algebra with real world applications and modeling. A transformational approach to graphing is used with families of related

graphs. Numerical, graphical, and algebraic solutions are considered for all problems as applicable. Graphing utilities and other relevant technology tools will be used when appropriate to support instruction, especially to allow students to explore graphical, numerical, and symbolic relationships.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

Algebra 2 HN (313536)
Grade: 8, 9, 10, 11 Credit: one / weighted +0.5
Prerequisite: Algebra 1 and Geometry

The depth and level of understanding expected in Algebra 2 Honors is beyond the scope of Algebra 2. Students are expected not only to master algebraic mechanics but also to understand the underlying theory and to apply the concepts to real-world situations in a meaningful way. A thorough treatment of advanced algebraic concepts is provided through the study of functions, polynomials, rational expressions, complex numbers, matrices, exponential and logarithmic equations, infinite geometric sequences and series, permutations and combinations, data analysis, and selected topics in discrete mathematics. Emphasis is on modeling, logic, and interpretation of results. A transformational approach to graphing is used with families of related graphs. Numerical, graphical, and algebraic solutions are considered for all problems, as applicable. Graphing utilities and other relevant technology tools will be used when appropriate to support instruction, especially to allow students to explore graphical, numerical, and symbolic relationships.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

Algebra 2 HN – Online Campus (313597)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 8, 9, 10, 11 Credit: one / weighted +0.5
Prerequisite: Algebra I and Geometry

The depth and level of understanding expected in Algebra 2 Honors is beyond the scope of Algebra 2. Students are expected not only to master algebraic mechanics but also to understand the underlying theory and to apply the concepts to real-world situations in a meaningful way. A thorough treatment of advanced algebraic concepts is provided through the study of functions, polynomials, rational expressions, complex numbers, matrices, exponential and logarithmic equations, infinite geometric sequences and series, permutations and combinations, data analysis, and selected topics in discrete mathematics. Emphasis is on modeling, logic, and interpretation of results. A transformational approach to graphing is used with families of related graphs. Numerical, graphical, and algebraic solutions are considered for all problems, as applicable. Graphing utilities and other relevant technology tools

will be used when appropriate to support instruction, especially to allow students to explore graphical, numerical, and symbolic relationships.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

AP Precalculus AB (316005)
Grade: 10, 11, 12 Credit: one / weighted +1.0
Prerequisite: Geometry and Algebra 2

In AP Precalculus AB, students explore everyday situations and phenomena using mathematical tools and lenses. Content of this college-level course corresponds to the first three units of the curriculum framework of the College Board Precalculus Advanced Placement Program. Students will study polynomial, rational, exponential, and logarithmic functions, trigonometry, and polar coordinates. An emphasis will be placed on developing the mathematical practices of procedural and symbolic fluency, multiple representations, and communication and reasoning.

Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved.

AP Precalculus BC – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(316093)
Grade: 10, 11, 12 Credit: one / weighted +1.0
Prerequisite: Geometry and Algebra 2

In AP Precalculus BC, students explore everyday situations and phenomena using mathematical tools and lenses. Content of this college-level course corresponds to all four units in the curriculum framework of the College Board Precalculus Advanced Placement Program. Students will study polynomial, rational, exponential, and logarithmic functions, trigonometry, and functions involving polar, parametric, vector, and matrix representations. An emphasis will be placed on developing the mathematical practices of procedural and symbolic fluency, multiple representations, and communication and reasoning.

Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved.

Precalculus w/Trig – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(316099) Grade: 10, 11, 12 Credit: one
Prerequisite: Geometry and Algebra 2

Precalculus with Trigonometry includes all the topics of Trigonometry (3150) and a thorough treatment of

functions through the study of polynomials, rational functions, logarithmic, exponential, and inverse functions. Topics include continuity, maximum and minimum points, an intuitive approach to limits, and rates of change. A transformational approach to graphing is used with families of related graphs. Numerical, graphical, and algebraic solutions are considered for all problems as applicable. Emphasis will be placed on problem solving techniques. Graphing utilities and other relevant technology tools will be used when appropriate to support instruction, especially to allow students to explore graphical, numerical, and symbolic relationships.

Precalculus w/Trig HN – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(316097)
Grade: 8, 9, 10, 11, 12
Credit: one / weighted +0.5
Prerequisite: Algebra 2

The depth and level of understanding expected in Precalculus with Trigonometry Honors is beyond the scope of Precalculus with Trigonometry. Precalculus with Trigonometry Honors includes all of the topics of Trigonometry (3150) and an in-depth treatment of functions through the study of polynomials, transformations, rational functions, exponential and logarithmic functions, inverses, polar equations, parametric equations, two-dimensional vectors, and selected topics in discrete mathematics. The course also includes the study of limits, continuity, maximum and minimum points and values, definition and properties of the derivative, rules of differentiation, equations of tangent lines to polynomial functions, infinite limits, and partial fractions. Numerical, graphical, and algebraic solutions are considered for all problems as applicable. Graphing utilities and other relevant technology tools will be used when appropriate to support instruction, especially to allow students to explore graphical, numerical, and symbolic relationships.

Precalculus w/Trig DE – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(3160D9)
Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: NVCC Prerequisite: C or higher in Algebra 2

This course provides the opportunity for students to earn credit for Math 161 and 162 (Precalculus I and II) through Northern Virginia Community College. Precalculus with Trigonometry includes a complete study of trigonometry topics as well as a thorough treatment of functions. Trigonometry topics include circular functions, right triangle ratios, solving trigonometric equations, inverses, identities, graphing trigonometric functions, and applying trigonometric techniques to solving real-world problems. Other topics include polynomials, rational functions, logarithmic, exponential, and inverse functions, sequences and series, continuity, maximum and minimum points, an intuitive approach

to limits, and rates of change. A transformational approach to graphing is used with families of related graphs. Numerical, graphical, and algebraic solutions are considered for all problems as applicable.

Emphasis will be placed on problem solving techniques. Graphing utilities and other relevant technology tools will be used when appropriate to support instruction, especially to allow students to explore graphical, numerical, and symbolic relationships.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment.

Prob & Statistics (319062)
Grade: 11, 12 Credit: one
Prerequisite: Geometry and Algebra 2 or Geometry and AFDA:

Probability and Statistics is an activity-based introduction to statistics that emphasizes working with data, graphs, and statistical ideas including the use of statistical software. Students are expected to develop and present professional quality statistical analyses. Course content includes theory of probability, description of statistical measurements, sampling and experimental design, probability distributions, and statistical inference. Graphing utilities and other relevant technology tools will be used when appropriate to support instruction, especially to allow students to explore graphical, numerical, and symbolic relationships.

AP Statistics (319204)
Grade: 10, 11, 12 Credit: one / weighted +1.0
Prerequisite: Algebra 2

Advanced Placement Statistics includes graphical and numerical techniques to study patterns and explore data, strategies for developing a plan to conduct a study based on data analysis, probability as a tool for predicting distribution of data, and techniques of statistical inference. Graphing utilities and other relevant technology tools will be used when appropriate to support instruction, especially to allow students to explore graphical, numerical, and symbolic relationships. Content of this college-level course corresponds to the College Board Course and Exam Description for AP Statistics.

Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved.

AP Statistics – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(319293)
Grade: 10, 11, 12 Credit: one / weighted +1.0
Prerequisite: Geometry and Algebra 2

Advanced Placement Statistics includes graphical and numerical techniques to study patterns and explore data, strategies for developing a plan to conduct a study based on data analysis, probability as a tool for predicting distribution of data, and techniques of statistical inference. Graphing utilities and other relevant technology tools will be used when appropriate to support instruction, especially to allow students to explore graphical, numerical, and symbolic relationships. Content of this course corresponds to the syllabus of the College Board Advanced Placement Statistics Program.

Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved.

AP Calculus AB – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(317093)
Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Precalculus with Trigonometry or Precalculus with Trigonometry Honors or AP Precalculus

This course emphasizes a multi-representational approach to calculus. Concepts, results, and problems are expressed graphically, numerically, analytically, and verbally. Topics include concepts and applications of differential and integral calculus, limits, and elementary differential equations. Graphing utilities and other relevant technology tools will be used when appropriate to support instruction, especially to allow students to explore graphical, numerical, and symbolic relationships. Content of this college-level course corresponds to the syllabus of the College Board Calculus AB Advanced Placement Program.

Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved.

AP Calculus BC – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(317793)
Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Precalculus with Trigonometry Honors or AP Precalculus BC or AP Calculus AB

This course includes all topics of Advanced Placement Calculus AB with additional topics. This course emphasizes a multi-representational approach to

calculus. Concepts, results, and problems are expressed graphically, numerically, analytically, and verbally. Topics include concepts and applications of differential and integral calculus, sequences and series, and elementary differential equations. Graphing utilities and other relevant technology tools will be used when appropriate to support instruction, especially to allow students to explore graphical, numerical, and symbolic relationships. Content of this college-level course corresponds to the syllabus of the College Board Calculus BC Advanced Placement Program.

Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved.

Calculus 1 & 2 DE – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(3177D9)
Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: NVCC Prerequisite: Precalculus with Trigonometry DE with a C or higher on the NOVA transcript or satisfactory placement scores for MTH 263

This course provides the opportunity for students to earn credit for Math 263 and 264 (Calculus I and II) through Northern Virginia Community College. During the first semester, students enroll in Math 263 and are introduced to concepts of limits, derivatives, differentiation of various types of functions and use of differentiation rules, application of differentiation, antiderivatives, integrals and applications of integration. During the second semester, students enroll in Math 264 to continue the study of calculus of algebraic and transcendental functions including rectangular, polar, and parametric graphing, indefinite and definite integrals, methods of integration, and power series along with applications.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment.

Multivar Calculus AV (317860)
Grade: 11, 12 Credit: one-half / weighted +1.0
Prerequisite: AP Calculus BC or Calculus 1 & 2 DE or IB Mathematics Analysis and Approaches HL 2

A third semester college-level calculus course, multivariable calculus is the calculus of three dimensions and includes the study of partial differentiation, multiple integrals, and line integrals. This course will receive a weighted grade and may be taken for college credit for a fee through a dual-enrollment agreement with George Mason University.

Recommended Pre-Requisite: IB Math Analysis HL 1 in 10th Grade.

Linear Algebra AV (319800)

Grade: 11, 12 Credit: one-half / weighted +1.0

Prerequisite: AP Calculus BC or IB Mathematics Analysis and Approaches HL 2 or IB Mathematics Applications and Interpretation HL 2 or Calculus 1 & 2 DE

This college-level course includes the study of systems of linear equations, vector spaces, linear dependence, linear transformations and matrix representation, orthogonal reduction, determinants, eigenvectors and eigenvalues, and a variety of applications. This course will receive a weighted grade and may be taken for college credit for a fee through a dual-enrollment agreement with George Mason University.

Recommended Pre-Requisite: IB Math Analysis HL 1 in 10th Grade.

IB Math Anl&App SL 1 (317109)

Grade: 11, 12 Credit: one / weighted +1.0

Prerequisite: Algebra 2

This course is intended for students who wish to pursue post-secondary studies in mathematics subjects that have a large mathematical content. It is for students who enjoy developing mathematical arguments, problem solving, and exploring real and abstract applications, with and without technology. This course is the first in a two-year sequence designed to prepare students for the IB standard level examination. Throughout the two year sequence, students will investigate concepts from advanced algebra and functions, trigonometry, statistics and probability, and differential and integral calculus.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Math Anl&App HL 1 (317110)

Grade: 11, 12 Credit: one / weighted +1.0

Prerequisite: Algebra 2

This course is intended for students who wish to pursue post-secondary studies in mathematics subjects that have a large mathematical content. It is for students who enjoy developing mathematical arguments, problem solving, and exploring real and abstract applications, with and without technology. This course is the first in a two-year sequence designed to prepare students for the IB standard level examination. Throughout the two year sequence, students will investigate concepts from advanced algebra and functions, trigonometry, statistics and probability, and differential and integral calculus.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Math Anl&App SL 2 (317158)

Grade: 12 Credit: one / weighted +1.0

Prerequisite: IB Mathematics Analysis and Approaches 1, SL 1 or HL 1.

This course concludes the study of the concepts introduced in IB Mathematics Analysis and Approaches 1 at the standard level. The course includes the study of advanced algebra and functions, trigonometry, statistics and probability, and differential and integral calculus. The course re-emphasizes and expands upon topics introduced in IB Mathematics Analysis and Approaches 1. Students will complete the Internal Assessment begun in IB Mathematics Analysis and Approaches 1.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Math Anl&App HL 2 (317159)

Grade: 12 Credit: one / weighted +1.0

Prerequisite: IB Mathematics Analysis and Approaches HL 1.

This course concludes the study of the concepts introduced in IB Mathematics Analysis and Approaches 1 at the higher level. The course includes the study of advanced algebra and functions, trigonometry, statistics and probability, and differential and integral calculus. The course re-emphasizes and expands upon topics introduced in IB Mathematics Analysis and Approaches 1. Students will complete the Internal Assessment begun in IB Mathematics Analysis and Approaches 1.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Math App & Int 1 (316408)

Grade: 11, 12 Credit: one / weighted +1.0

Prerequisite: Algebra 2

This course is designed for students who enjoy describing the real world and solving practical problems using mathematics; it is for those who are interested in harnessing the power of technology alongside exploring mathematical models and enjoy the more practical side of mathematics. This course is the first in a two-year sequence designed to prepare students for either the IB standard level or higher level examination. Throughout the two year sequence, students will investigate concepts from statistics and probability, functions (including exponential, logarithmic, and trigonometric), trigonometry, and differential calculus.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Math App & Int SL 2 (316458)

Grade: 12 Credit: one / weighted +1.0

Prerequisite: IB Mathematics Applications and Interpretation 1

This course concludes the study of the concepts introduced in IB Mathematics Applications and Interpretation 1 at the standard level. The course includes the study of statistics and probability, functions (including exponential, logarithmic, and trigonometric), trigonometry, and differential calculus. The course re-emphasizes and expands upon topics introduced in IB Mathematics Applications and Interpretation 1. Students will complete the Internal Assessment begun in IB Mathematics Applications and Interpretation 1.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Math App & Int HL 1 (316410)

Grade: 11, 12 Credit: one / weighted +1.0

Prerequisite: Algebra 2

This course is designed for students who enjoy describing the real world and solving practical problems using mathematics; it is for those who are interested in harnessing the power of technology alongside exploring mathematical models and enjoy the more practical side of mathematics. This course is the first in a two-year sequence designed to prepare students for the IB higher level examination. Throughout the two year sequence, students will investigate concepts from statistics and probability, functions (including exponential, logarithmic, and trigonometric), trigonometry, and differential calculus.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Math App & Int HL 2 (316459)

Grade: 12 Credit: one / weighted +1.0

Prerequisite: IB Mathematics Applications and Interpretation 1

This course concludes the study of the concepts introduced in IB Mathematics Applications and Interpretation 1 at the higher level. The course includes the study of statistics and probability, functions (including exponential, logarithmic, and trigonometric), trigonometry, and differential calculus. The course re-emphasizes and expands upon topics introduced in IB Mathematics Applications and Interpretation 1.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Computer Science SL (318508)
Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Advanced Programming or equivalent

The content of this course includes software development, computer systems, system design, social significance, number systems and Boolean Logic, advanced data structures and algorithms, objects and their use in problem solutions, the system life cycle, and file organization. Students will complete an in-depth project that demonstrates mastery of all required Standard Level aspects.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Computer Science HL 2 (318509)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: IB Computer Science SL

This is the second year of a two-year course sequence. This course requires applications of concepts taught in IB Computer Science SL. The content of this course includes computer mathematics and logic, advanced data structures and algorithms, further system fundamentals, system life cycle, and file organization. The understanding of a case study will be included. Students will complete an in-depth project that demonstrates mastery of all Higher Level required aspects.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

Engineer Math – Chantilly Academy
Academy course enrollment must be approved by the appropriate Academy.

(316326)
Grade: 10, 11, 12 Credit: one
Prerequisite: Algebra 2

Corequisite: Precalculus with Trigonometry

No transportation provided.

The mathematics topics taught in this course are motivated through direct applications in engineering. Engineering Mathematics addresses salient mathematics topics actually used in the primary core engineering college courses; Basic Algebraic Manipulations; Trigonometry; 2-D Vectors; Complex Numbers; Sinusoids and Harmonic Signals; Systems of Equations and Matrices; Basics of Differentiation; Basics of Integration; Linear Differential Equations with Constant Coefficients. Course material is taught through hands-on physical experiments in the classroom and laboratory, and is thoroughly integrated with the engineering analysis software MATLAB. Students learn the interconnection between classroom theory, laboratory measurement and numerical representation of their engineering results. TSA, the co-curricular student organization,

offers opportunities in leadership, community, and competitive events.

SCIENCE

Biology 1 (431000)
Grade: 9, 10, 11, 12 Credit: one

In Biology 1, students engage in scientific inquiry through lab work as they explore biological processes. All class and laboratory activities focus on life processes that occur within organisms or cells as well as the characteristics of life including: reproduction, development, and adaptation to environments. Major topics of study include molecular biology, cells, genetics, organisms, evolution and ecology. If dissections are a part of the laboratory experience, alternatives are available.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

Biology 1 – Online Campus (431099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 9, 10, 11, 12 Credit: one

In Biology 1, students engage in scientific inquiry through lab work as they explore biological processes. All class and laboratory activities focus on life processes that occur within organisms or cells as well as the characteristics of life including: reproduction, development, and adaptation to environments. Major topics of study include molecular biology, cells, genetics, organisms, evolution and ecology. If dissections are a part of the laboratory experience, alternatives are available.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

Biology 1 HN (431036)
Grade: 9, 10, 11, 12 Credit: one / weighted +0.5

In Biology 1 Honors, students engage in scientific inquiry as they explore biological processes. All class and laboratory activities focus on life processes that occur within organisms or cells as well as the characteristics of life including: reproduction, development, and adaptation to environments. Major topics of study include molecular biology, cells, genetics, organisms, evolution and ecology. Students in honors Biology investigate some topics at a deeper level than the general education curriculum, including biotechnology, and health and environmental issues. If dissections are a part of the laboratory experience, alternatives are available. Students, either individually or with a team, will participate in an externally-moderated experimental/research project.

Students are required to complete one or more VDOE approved assessments if required for federal

accountability or for use as a verified credit (high school credit courses only).

Biology 1 HN – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(431097)
Grade: 9, 10, 11, 12
Credit: one / weighted +0.5

In Biology 1 Honors, students engage in scientific inquiry as they explore biological processes. All class and laboratory activities focus on life processes that occur within organisms or cells as well as the characteristics of life including: reproduction, development, and adaptation to environment. Major topics of study include molecular biology, cells, genetics, organisms, evolution and ecology. In comparison to Biology 1, students will investigate some topics at a deeper level including biotechnology, health and environmental issues. Students, either individually or with a team, will participate in an externally-moderated experimental/research project.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

Chemistry 1 (441000)
Grade: 10, 11, 12 Credit: one
Prerequisite: Biology 1 and Algebra 1

Chemistry 1 provides students the opportunity to develop their critical thinking skills as they acquire a better understanding of the chemical nature of our world. Students investigate the composition, properties, and reactions of matter. The approach is inductive, mathematical, and conceptual. Laboratory experiments and subsequent classroom analysis are integral components of the course.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

Chemistry 1 – Online Campus (441099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 10, 11, 12 Credit: one
Prerequisite: Biology 1, Algebra 1

Chemistry 1 provides students the opportunity to develop their critical thinking skills as they acquire a better understanding of the chemical nature of our world. Students investigate the composition, properties, and reactions of matter. The approach is inductive, mathematical, and conceptual. Laboratory experiments and subsequent classroom analysis are integral components of the course.

Students are required to complete one or more VDOE approved assessments if required for federal

accountability or for use as a verified credit (high school credit courses only).

Chemistry 1 HN – Online Campus

Online Campus course enrollment must be approved by the Online Campus.

(441097)

Grade: 10, 11, 12

Credit: one / weighted +0.5

Prerequisite: Biology 1

Corequisite: Algebra 2

Chemistry 1 Honors provides students the opportunity to utilize their strong critical thinking skills and apply their mathematical knowledge as they investigate the composition, properties, and reactions of matter in depth. Laboratory experiments and subsequent classroom analysis are integral components of the course. Students, either individually or with a team, will participate in an externally-moderated experimental/research project.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

Adv Chem 1 for IB Sch AV

(441007)

Grade: 10, 11, 12 Credit: one / weighted +1.0

Prerequisite: Biology 1

Corequisite: Algebra 2

This course provides a general introduction to chemistry. The topics of study include atomic structure, ionic and covalent compounds, chemical equations, stoichiometry, gases, solutions, acids and bases, and carbon chemistry. The history and nature of science are included throughout the course. Students learn to design experiments, collect data, and analyze data using graphical and statistical methods. Laboratory investigations form a major component of the course and prepare students for the second level course work. Students will participate in an individual scientific investigation involving creating a research question, collecting and analyzing data, and writing a report. Adv Chemistry for IB Schools meets the course requirements of Chemistry 1 Honors and IB Chemistry 1. Students, either individually or with a team, will participate in an externally-moderated experimental/research project.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved. Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

IB Biology 1

(438008)

Grade: 11 Credit: one / weighted +1.0

Prerequisite: Biology 1 and Chemistry 1

IB Biology I is the first year of a two-year sequence wherein students study biology in depth. During this course, students will study topics such as cell structure; nucleic acids and proteins; cellular respiration and photosynthesis; genetics; human reproduction; defense against infectious disease; classification and diversity; nerves, muscles, and movement; and plant science. Students participate in an interdisciplinary science research project in this class or IB Biology SL II or HL II. Students will be involved in an experimental/research project where the student develops a research question focused on a biological concept, collects data independently, analyzes the data, and produces a written report. Laboratory investigations form a major component of the course. If dissections are part of the laboratory experience, alternatives are available.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Biology HL 2

(439009)

Grade: 12 Credit: one / weighted +1.0

Prerequisite: IB Biology 1

IB Biology HL II is the second year of a two-year sequence wherein students study biology in depth. Students continue the higher level topics on the cell; nucleic acids and proteins; cell respiration and photosynthesis; genetics; human reproduction; defense against infectious disease; classification and diversity; nerves, muscles, and movement; and plant science. In addition, students study higher level options that may include evolution; neurobiology and behavior; applied plant and animal science; ecology and conservation; microbes and biotechnology; or human physiology. Students will participate in an interdisciplinary science research project (either in IB Biology I or in this class). Students will be involved in an experimental/research project where the student develops a research question focused on a biological concept, collects data independently, analyzes the data, and produces a written report. Laboratory investigations form a major component of the course. If dissections are part of the laboratory experience, alternatives are available.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Chemistry SL 2

(449008)

Grade: 12 Credit: one / weighted +1.0

Prerequisite: Advanced Chemistry for IB Schools, Algebra 2

This second level course provides students with hands-on laboratory experiences and a more comprehensive study of chemistry. Students study atomic theory, structure and bonding, energetics,

equilibrium kinetics, periodicity, and organic chemistry. Students will participate in an interdisciplinary sciences project as well as an individual scientific investigation involving creating a research question, collecting and analyzing data, and writing a report.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

Geosystems

(422000)

Grade: 11, 12

Credit: one

Prerequisite: Biology 1 and one other laboratory science course

Geosystems utilizes content from geology, astronomy, oceanography, and meteorology to investigate, both qualitatively and quantitatively, the major earth systems (atmosphere, hydrosphere, lithosphere, biosphere) and their dynamic inter-relationships. Students explore concepts with the same tools professional scientists use including computers, Geographic Information Systems (GIS), image processing software, and probeware.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

Geosystems – Online Campus

(422099)

Online Campus course enrollment must be approved by the Online Campus.

Grade: 11, 12

Credit: one

Prerequisite: Biology 1 and one other Laboratory Science course

Geosystems utilizes content from geology, astronomy, oceanography, and meteorology to investigate, both qualitatively and quantitatively, the major earth systems (atmosphere, hydrosphere, lithosphere, biosphere) and their dynamic inter-relationships. Students explore concepts with the same tools professional scientists use including computers, Geographic Information Systems (GIS), image processing software, and probeware.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

Geosystems HN

(422036)

Grade: 11, 12 Credit: one / weighted +0.5

Prerequisite: Biology 1 and Chemistry 1

Geosystems Honors utilizes content from geology, astronomy, oceanography, and meteorology to investigate, both qualitatively and quantitatively, the major earth systems (atmosphere, hydrosphere, lithosphere, biosphere) and their dynamic interrelationships. Students explore concepts with the same tools professional scientists use including computers, Geographic Information Systems (GIS),

image processing software, and probeware. Students will investigate some topics at a deeper level and will participate, either individually or with a team, in an externally-moderated experimental/research project.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

Active Physics - ELL (451090)
Grade: 10, 11, 12 Credit: one

This course is designed to develop content understanding and English language proficiency simultaneously. Active Physics is a physics course for students who have not yet passed Algebra I or were weak in Algebra I during the previous school year. This course has a strong emphasis on experimentation. The units of study focus on predictions and real-world applications such as sports, medicine, transportation, home, and communication. The physics content is presented in a problem solving manner to strengthen both science and mathematics content knowledge and skills.

Active Physics (451050)
Grade: 9, 10 Credit: one

Active Physics is a physics course for students who have not yet passed Algebra I or were weak in Algebra I during the previous school year. This course has a strong emphasis on experimentation. The units of study focus on predictions, algebraic patterns, and real-world applications. Students study mechanics, electricity, wave phenomena, energy, and forces through hands-on investigations. The physics content is presented in a problem solving manner to strengthen both science and mathematics content knowledge and skills.

Physics 1 (451000)
Grade: 11, 12 Credit: one
Prerequisite: Biology 1, Chemistry 1

Corequisite: Algebra 2

Physics 1 introduces the central concepts of physics, including kinematics, dynamics, the conservation laws (mass, energy, and momentum), electricity, magnetism, and waves. This laboratory-centered course utilizes an approach that is inductive and mathematical as well as conceptual.

Physics 1 – Online Campus (451099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 11, 12 Credit: one
Prerequisite: Biology 1, Chemistry 1

Corequisite: Algebra 2

Physics 1 introduces the central concepts of physics, including kinematics, dynamics, the conservation laws (mass, energy, and momentum), electricity,

magnetism, and waves. This laboratory-centered course utilizes an approach that is inductive and mathematical as well as conceptual.

IB Physics 1 (451007)
Grade: 11, 12 Credit: one / weighted +1.0
Corequisite: Precalculus with Trigonometry or IB Mathematics Analysis and Approaches 1

IB Physics 1 includes the overarching topics of space, time, and motion; the particulate nature of matter; wave behavior; fields, and nuclear and quantum physics. Students examine scientific knowledge claims in a real-world context. As students progress through the course, they become familiar with traditional experimentation techniques; this helps them to develop their investigative skills and evaluate the impact of error and uncertainty in scientific inquiry. Students will participate in an interdisciplinary sciences project as well as an individual scientific investigation involving creating a research question, collecting and analyzing data, and writing a report.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Physics SL 2 (459008)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: IB Physics 1

Corequisite: IB Mathematics Analysis/Approaches 2

In IB Physics SL 2, the topics addressed in IB Physics I - space, time, and motion; the particulate nature of matter; wave behavior; fields, and nuclear and quantum physics—are revisited in more depth and breadth. Students will participate in an interdisciplinary science research project. Students will participate in an interdisciplinary sciences project as well as an individual scientific investigation involving creating a research question, collecting and analyzing data, and writing a report.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Environment System SL (428008)
Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Biology 1 and Chemistry 1

IB Environmental Systems and Societies SL focuses on sustainability issues within social, cultural, economic, political, and ethical contexts. The concepts of perspectives, systems, and sustainability are integrated throughout the course. Topics of study include ecology, biodiversity and conservation, water, land, atmosphere and climate change, natural resources, and human populations and urban systems. This course emphasizes the ability to participate in philosophical, ethical, and pragmatic discussions of the issues involved from the local through to the global level. Students. Students will

participate in an interdisciplinary sciences project as well as an individual scientific investigation involving creating a research question, collecting and analyzing data, and writing a report.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

Human Anatomy & Phys (433000)
Grade: 11, 12 Credit: one
Prerequisite: Biology 1 and Chemistry 1

Human Anatomy and Physiology provides students with an in-depth understanding and working knowledge of the human body. It covers human body systems with an emphasis on the mechanisms that maintain homeostasis. Lab activities cover both the physiological and anatomical aspects of human biology. Students have the opportunity to explore careers in the medical sciences. If dissections are part of the laboratory experience, alternatives are available.

Oceanography – Online Campus (425099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 11, 12 Credit: one
Prerequisite: Geosystems or Chemistry 1

Oceanography explores geophysical and biological factors of marine environments and covers topics such as the geology and geography of ocean basins, physical properties of seawater, marine chemistry, marine biology, salinity and density circulation in the oceans, waves, and tides. The course is designed to be a survey of oceanography concepts.

SOCIAL STUDIES

World Hist/Geog 1 (221900)
Grade: 12 Credit: one

This is the first of a two-year, chronologically and thematically organized study of world history and geography. In this first year, students study the world from ancient times to 1500 CE. The course highlights relationships between the geography and history of Europe, Africa, Asia, and Latin America. Students refine and expand critical thinking skills, practice decision making and problem solving, and formulate questions to guide research. Additionally, students will apply social science skills -historical thinking, geographic analysis, economic decision making, and responsible citizenship – to course content.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

World Hist/Geog 1 – Online Campus

Online Campus course enrollment must be approved by the Online Campus.

(221999)

Grade: 12

Credit: one

This is the first of a two-year, chronologically and thematically organized study of world history and geography. In this first year, students study the world from ancient times to 1500 CE. The course highlights relationships between the geography and history of Europe, Africa, Asia, and Latin America. Students refine and expand critical thinking skills, practice decision making and problem solving, and formulate questions to guide research. Additionally, students will apply social science skills -historical thinking, geographic analysis, economic decision making, and responsible citizenship – to course content.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

World Hist/Geog 1 HN – Online Campus

Online Campus course enrollment must be approved by the Online Campus.

(221997)

Grade: 12

Credit: one / weighted +0.5

This is the first of a two-year, chronologically and thematically organized study of world history and geography. In this first year, students study the world from ancient times to 1500 CE. The course highlights the relationship between the geography and history of Europe, Africa, Asia, and Latin America. Students examine the relationship among social, economic and geopolitical developments across time and place. They use the processes of conceptual and critical thinking to analyze historical and contemporary issues. Students are encouraged to think independently while developing group process skills. Additionally, students will apply social science skills - historical thinking, geographic analysis, economic decision making, and responsible citizenship – to course content.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

World Hist/Geog 2

(222100)

Grade: 9, 10

Credit: one

This is the second of a two-year, chronologically and thematically organized study of world history and geography. In this second year, students study the world from 1500 CE through the present. The course weaves together the skills and content of both history and geography so that students may learn how both affect the world around them. Regions of study include North and South America, Europe, Asia, and Africa. Students continue to refine and expand critical thinking skills, practice decision making and problem

solving, and formulate questions to guide research. Additionally, students will apply social science skills - historical thinking, geographic analysis, economic decision making, and responsible citizenship – to course content.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

World Hist/Geog 2 – Online Campus

Online Campus course enrollment must be approved by the Online Campus.

(222199)

Grade: 9, 10

Credit: one

This is the second of a two-year, chronologically and thematically organized study of world history and geography. In this second year, students study the world from 1500 CE through the present. The course weaves together the skills and content of both history and geography so that students may learn how both affect the world around them. Regions of study include North and South America, Europe, Asia, and Africa. Students continue to refine and expand critical thinking skills, practice decision making and problem solving, and formulate questions to guide research. Additionally, students will apply social science skills - historical thinking, geographic analysis, economic decision making, and responsible citizenship – to course content.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

World Hist/Geog 2 HN – Online Campus

Online Campus course enrollment must be approved by the Online Campus.

(222197)

Grade: 9, 10

Credit: one / weighted +0.5

This is the second of a two-year, chronologically and thematically organized study of world history and geography. In this second year, students study the world from 1500 CE through the present. The course weaves together the skills and content of both history and geography so that students may learn how both affect the world around them. Regions of study include North and South America, Europe, Asia, and Africa. Students continue to examine the relationship among social, economic, and geopolitical developments across time and place. Students are encouraged to think independently while developing group process skills. Additionally, students will apply social science skills -historical thinking, geographic analysis, economic decision making, and responsible citizenship – to course content.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

World Hist/Geog 2 HN

(222107)

Grade: 9, 10

Credit: one / weighted +0.5

This course is a chronologically and thematically organized study of world history and geography with an emphasis on the modern era devoted to the geography and history of Europe, Africa, Asia and the Americas from 1500 CE to the present. This course is intended for students who wish to pursue an IB diploma. Students examine spatial and temporal connections among social, economic, cultural, and geopolitical developments. They use the processes of conceptual and critical thinking to analyze historical and contemporary issues. Students engage in intensive analytical reading, writing and discussion. This is the first of a four-year history and social science sequence for IB history. Honors World History and Geography 2 meets the course requirements of World History and Geography 2. Additionally, students will apply social science skills -historical thinking, geographic analysis, economic decision making, and responsible citizenship – to course content.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

AP World History: Modern – Online

Online Campus course enrollment must be approved by the Online Campus.

(234093)

Grade: 10, 11, 12

Credit: one / weighted +1.0

In Advanced Placement World History students investigate significant events, individuals, developments and processes in four historical periods from approximately 1200 C.E. to the present. Students develop the skills, practices, and methods employed by historians. This course may be used to satisfy the World History and Geography II requirement.

Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved. Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

US VA History

(236000)

Grade: 11

Credit: one

Students examine the political, economic, social, and cultural changes of the United States, including the role of Virginia. Students study major historical developments and their impact on contemporary society and on the individual. Geography skills, critical thinking, writing, research, and group-process skills are refined. Additionally, students will apply social science skills -historical thinking, geographic analysis,

economic decision making, and responsible citizenship – to course content.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

US VA History – Online Campus (236099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 11 Credit: one

Students examine the political, economic, social, and cultural changes of the United States, including the role of Virginia. Students study major historical developments and their impact on contemporary society and on the individual. Geography skills, critical thinking, writing, research, and group-process skills are refined. Additionally, students will apply social science skills -historical thinking, geographic analysis, economic decision making, and responsible citizenship – to course content.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

US VA History HN (236036)
Grade: 11 Credit: one / weighted +0.5

Virginia and United States History Honors deepens and advances the curriculum of Virginia and United States History. Students examine the political, economic, social, and cultural changes of the United States, including the role of Virginia. Students study major historical developments and their impact on contemporary society and on the individual. Geography skills, critical thinking, writing, research, and group-process skills are refined. Additionally, students will apply social science skills -historical thinking, geographic analysis, economic decision making, and responsible citizenship – to course content.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

US VA History HN – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(236097)
Grade: 11 Credit: one / weighted +0.5

Virginia and United States History Honors deepens and advances the curriculum of Virginia and United States History. Students examine the political, economic, social, and cultural changes of the United States, including the role of Virginia. Students study major historical developments and their impact on contemporary society and on the individual. Geography skills, critical thinking, writing, research,

and group-process skills are refined. Additionally, students will apply social science skills -historical thinking, geographic analysis, economic decision making, and responsible citizenship – to course content.

Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

US VA History DE – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(2360D9)
Grade: 12 Credit: one / weighted +1.0

This course provides the opportunity for students to earn credit for History 121 and History 122 through Northern Virginia Community College. The course deepens and advances the curriculum for Virginia and United States history. Students examine American history from colonization to the present. Themes explored include American identity, historical causation, modernity, and globalization. Historical thinking skills and POG attributes are developed. This course satisfies the Virginia and US History graduation requirement. To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment. Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment.

AP US History – Online Campus (231993)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 11 Credit: one / weighted +1.0

In this course students develop the factual knowledge and analytical skills necessary to deal with the issues and problems of American History. They do in-depth analysis of major developments; become familiar with primary sources; assess historical materials, evidence, and interpretations; and learn to write research papers. Completion of this course fulfills the graduation requirement for one credit in Virginia and United States History.

Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved. Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

IB History Amer HL 1 (236009)
Grade: 12 Credit: one / weighted +1.0

Students study political, social, economic and cultural history of the nations of the Western Hemisphere with an emphasis placed on the history of the United States. Students are introduced to history as a discipline, the nature and variety of historical sources, and the historian's methods. Topics for study include encounter and exchange, colonial institutions, collapse of imperial regimes, evolution of nineteenth century institutions, and the Americas in the industrial age. Students are expected to perceive past events and issues as they were experienced by people at the time, to acquire a comprehension both of diverse cultures and of shared humanity, and to understand the significance of the past to their own lives. IB History I, together with IB History II, prepares students to take the higher level exam. This course satisfies the Virginia and US History graduation requirement.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved. Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

US VA Government (244006)
Grade: 10 Credit: one

Students examine both the structure and function of American government at the international, national, state, and local levels. The course focuses on political decision-making, comparative political and economic systems, and the student's role as a citizen. Critical thinking, writing, research, and group-process skills are refined. Additionally, students will apply social science skills -historical thinking, geographic analysis, economic decision making, and responsible citizenship – to course content.

US VA Government - EL (244090)
Grade: 9, 10, 11, 12 Credit: one

This course is designed to develop content understanding and English language proficiency simultaneously. Students examine both the structure and function of American government at the national, state, and local levels using linguistically appropriate resources. The course focuses on political decision-making, comparative political and economic systems, and the student's role as a citizen. Students engage in reading, writing, speaking and listening tasks that promote academic language development and target the language necessary for students to demonstrate complex thinking and learning. This course is aligned to the WIDA English language development standards and the Virginia and US Government Standards of Learning and fulfills the Virginia and United States Government requirement for graduation.

US VA Government – Online Campus

Online Campus course enrollment must be approved by the Online Campus.

(244099) Grade: 12 Credit: one

This course is designed to develop content understandings and English language proficiency simultaneously. Students examine both the structure and function of American government at the national, state, and local levels using linguistically appropriate resources. The course focuses on political decision-making, comparative political and economic systems, and the student's role as a citizen. Students engage in reading, writing, speaking and listening tasks that promote academic language development and target the language necessary for students to demonstrate complex thinking and learning. This course is aligned to the WIDA English language development standards and the Virginia and US Government Standards of Learning and fulfills the Virginia and United States Government requirement for graduation.

US VA Government HN (244007)

Grade: 10 Credit: one / weighted +0.5

In this course, students study political philosophy and the structures and functions of local, state, and national governments. This course is intended for students in IB schools who wish to pursue an IB diploma. In addition, students will investigate the governments of the countries that they will study in their later IB history courses. Important elements of the class include congressional and judicial simulations as well as small and large group discussion and research on current political and economic issues. Additionally, students will apply social science skills -historical thinking, geographic analysis, economic decision making, and responsible citizenship – to course content. One additional feature of this course is that the students will have direct instruction in time management and study skills to help prepare them for the rigors of the IB program including IB History I and IB History II.

US VA Government HN – Online Campus

Online Campus course enrollment must be approved by the Online Campus.

(244097) Grade: 12 Credit: one / weighted +0.5

Virginia and United States Government Honors deepens and advances the curriculum of Virginia and United States Government. Students examine both the structure and function of American government at the international, national, state, and local levels. The course focuses on political decision-making, comparative political and economic systems, and the student's role as a citizen. Critical thinking, writing, research, and group-process skills are refined. Additionally, students will apply social science skills - historical thinking, geographic analysis, economic decision making, and responsible citizenship – to course content.

US VA Government DE – Online Campus

Online Campus course enrollment must be approved by the Online Campus.

(2440D9) Grade: 11, 12 Credit: one / weighted +1.0

This course provides the opportunity for students to earn credit for Political Science 135 through Northern Virginia Community College. The course deepens and advances the curriculum of Virginia and United States government. Completion of this course fulfills the graduation requirement for one credit in Virginia and United States Government. Students examine the structure and function of American government at the international, national, state, and local levels. Course topics include political decision-making, the branches of government, comparative political and economic systems, and the student's role as a citizen. Critical thinking, writing, research, and group-process skills are refined.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment.

AP Government – Online Campus

Online Campus course enrollment must be approved by the Online Campus.

(244593) Grade: 12 Credit: one / weighted +1.0

This study of American government is an introduction to the discipline of political science. Students study required US foundational documents and Supreme Court decisions to gain an understanding of the relationships and interactions among political institutions, processes and behaviors. Students learn and apply the skills of data interpretation, comparison, application and development of an argument. In addition, students will complete a political science research or applied civics project. This course prepares students to take the Advanced Placement examination. Completion of this course fulfills the graduation requirement for one credit in Virginia and United States Government.

Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved.

IB His 2 World Top HL (236109)

Grade: 11 Credit: one / weighted +1.0

This course offers students an opportunity to study selected topics in World History. Students read widely, acquiring the skills to evaluate, to interpret, and to use source material critically as historical evidence. Additionally, students are expected to demonstrate an awareness of historical perspective and a consistently high level of critical analysis and handling of evidence in expository writing. A

significant part of the final grade is an independent research project.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved. Students are required to complete one or more VDOE approved assessments if required for federal accountability or for use as a verified credit (high school credit courses only).

African Amer History (237100)

Grade: 9, 10, 11, 12 Credit: one

The course will challenge students to explore primary and secondary sources documenting the African American experience by surveying African American history from precolonial Africa through today. It introduces students to key concepts in African American history, from early beginnings in Africa through the transatlantic slave trade, the Civil War, Emancipation, Reconstruction, the Civil Rights era and to the present. Students will learn about African American voices, including many not traditionally highlighted, and their contributions to the story of Virginia and America. The course includes a capstone project requiring students to conduct independent research on a question or problem of their choosing and to demonstrate a deeper understanding of African American history. This is an elective course to be offered at each high school. It does not fulfill a World History or VA/US History graduation requirement.

African Amer History – Online Campus **Online Campus course enrollment must be approved by the Online Campus.**

(237199) Grade: 9, 10, 11, 12 Credit: one

The course will challenge students to explore primary and secondary sources documenting the African American experience by surveying African American history from precolonial Africa through today. It introduces students to key concepts in African American history, from early beginnings in Africa through the transatlantic slave trade, the Civil War, Emancipation, Reconstruction, the Civil Rights era and to the present. Students will learn about African American voices, including many not traditionally highlighted, and their contributions to the story of Virginia and America. The course includes a capstone project requiring students to conduct independent research on a question or problem of their choosing and to demonstrate a deeper understanding of African American history. This is an elective course to be offered at each high school. It does not fulfill a World History or VA/US History graduation requirement.

African Amer History DE – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(2371D9)
Grade: 11, 12 Credit: one / weighted +1.0

This course provides the opportunity for students to earn credit for History 141 and History 142 through Northern Virginia Community College. It surveys the history of the African American experience and allows students to reach a basic understanding of how the African American cultural experience has been influenced by historical developments. Students will learn about the important figures and the political, economic, social, and cultural factors shaping the dynamics of the African American experience during the time period considered. It does not fulfill the VA/US History or World History graduation requirements.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment.

IB Soc Anthropology SL (237408)
Grade: 11, 12 Credit: one / weighted +1.0

In this course, students engage in the comparative study of culture and human societies. They explore both the universal principles of social and cultural life and characteristics of specific societies and cultures. In studying this course students will come to appreciate how anthropology as a discipline contributes to an understanding of contemporary issues, such as war and conflict, the environment, poverty, injustice, inequality and human and cultural rights. The study of social and cultural anthropology offers critical insight into the continuities as well as dynamics of social change and the development of societies, and challenges cultural assumptions. Course activities include observation, field study, reading, writing, and discussion.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

AP Mac/Mic Economics – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(280493)
Grade: 10, 11, 12 Credit: one / weighted +1.0

This course is designed to provide students with an understanding of the economic principles which apply to an economic system as a whole. This course is designed to provide students with an understanding of the principles of economics which apply to the functions of decision-makers, both consumers and producers, within economic systems. Topics include, national economics, international economics, the nature and functions of product

markets, the study of factor markets, and the role of government in promoting greater efficiency and equity in the economy. This course fulfills the Economic and Personal Finance and virtual graduation requirements.

Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved.

IB Geography SL (221008)
Grade: 11, 12 Credit: one / weighted +1.0
Recommended Prerequisite: Algebra 2

IB Geography embodies global and international awareness in several distinct ways. It examines key global issues, such as poverty, sustainability and climate change. It considers examples and detailed case studies at a variety of scales, from local to regional, national and international. In the IB Geography course students will (a) develop an understanding of the interrelationships between people, places, spaces and the environment, (b) develop a concern for human welfare and the quality of the environment, and an understanding of the need for planning and sustainable management, and (c) appreciate the relevance of geography in analyzing contemporary issues and challenges, and develop a global perspective of diversity and change.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

Law in Action (242000)
Grade: 9, 10, 11, 12 Credit: one

This course provides practical information and problem-solving opportunities regarding the law. Students develop both knowledge of the law and skills necessary for survival in our law-based society. Classes engage in active learning experiences such as mock trials, moot courts, role plays, case studies, simulations and small group exercises. Students explore the definition of law, citizen rights and responsibilities under the law, learn methods of dispute resolution, as well as identify and analyze public issues involving the law.

Psychology – Online Campus (290099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 9, 10, 11, 12 Credit: one

In this course, students examine patterns and variations of human behavior and the process of individual human development. They identify and examine the emotional, cognitive, and physical factors which influence the development of the individual human being. Students distinguish among the major schools and systems of psychology and methods of investigation.

AP Psychology – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(290299)
Grade: 10, 11, 12 Credit: one / weighted +1.0

The purpose of this course is to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the methods psychologists use in their science and practice. The aim of Advanced Placement Psychology is to provide the students with a learning experience equivalent to that obtained in an introductory college psychology course. The rigorous course syllabus and college level texts both suggest that students who enroll should be highly motivated and intellectually curious.

Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved.

IB Psychology SL (290108)
Grade: 11, 12 Credit: one / weighted +1.0

The IB Psychology standard level program is a one-year study of three core approaches used in the field of psychology to investigate human behavior: biological, cognitive, socio-cultural. Each of these areas is investigated through an in-depth exploration of theories, models, and empirical research. Students undertaking the course can expect to develop an understanding of how psychological knowledge is generated, developed and applied. This will allow students to have a greater understanding of themselves and appreciate the diversity of human behavior.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

SPECIAL EDUCATION

Adapted Health & PE (770002)
Grade: 9 Credit: one

Prerequisite: Students must have an Individual Education Plan (IEP) for course enrollment. The adapted health and physical education course is a modified version of the general health and physical education course and is designed for students who have IEPs indicating adapted physical education services in a special education setting. Students gain knowledge and skills in a variety of individual and team sports/activities and participate in individualized personal fitness plans to promote an active lifestyle. Activities are individualized based on the student's present level of performance and identified areas of need and designed to maximize participation. Students will participate in modified health education units required of their grade level.

Adapted PE (770003)
Grade: 10 Credit: one
Prerequisite: Students must have an Individual Education Plan (IEP) for course enrollment.

The adapted physical education elective course builds on the knowledge and skills acquired in 9th and 10th grade and is designed for students who have IEPs indicating adapted physical education services in a special education setting. Students gain knowledge and skills in a variety of individual and team sports/activities and participate in individualized personal fitness plans to promote an active lifestyle. Activities are individualized based on the student's present level of performance and identified areas of need and designed to maximize participation. NOTE: This course is not required for students who have completed 9th and 10th grade health and physical education and enrollment should be determined by IEP teams.

Found of Science (781180)
Grade: 9, 10, 11, 12 Credit: one

Foundations of Science is a one-credit elective course designed to support instruction along the FCPS Program of Studies and the VA Essentialized Standards of Learning (VESOL) in the identified content area; does not require SOL testing. Students may enroll in this elective class each year of HS participation. Instruction is individualized based on needs identified in the IEP to help students gain a basic content vocabulary, knowledge and skills and designed to be taught at the learning pace of the individual students. Participation in Foundations courses will aid the student in fulfilling requirements of the Virginia Alternative Assessment Program (VAAP) and meet the requirements for an Applied Studies Diploma.

Found of English 9-12 (781380)
Grade: 9, 10, 11, 12 Credit: one

Foundations of English, 9-12, is a one-credit elective course designed to support instruction along the FCPS Program of Studies and the VA 7 in the identified content area; does not require SOL testing. Students may enroll in this elective class each year of HS participation. Instruction is individualized based on needs identified in the IEP to help students gain a basic content vocabulary, knowledge and skills and designed to be taught at the learning pace of the individual students. Participation in Foundations courses will aid the student in fulfilling requirements of the Virginia Alternative Assessment Program (VAAP) and meet the requirements for an Applied Studies Diploma.

Found US VA Hist 1-2 (781480)
Grade: 9, 10, 11, 12 Credit: one

Foundations of United States and Virginia History is a one-credit elective course designed to support instruction along the FCPS Program of Studies and the VA Essentialized Standards of Learning (VESOL) in the identified content area; does not require SOL testing. Students may enroll in this elective class each year of

HS participation. Instruction is individualized based on needs identified in the IEP to help students gain a basic content vocabulary, knowledge and skills and designed to be taught at the learning pace of the individual students. Participation in Foundations courses will aid the student in fulfilling requirements of the Virginia Alternative Assessment Program (VAAP) and meet the requirements for an Applied Studies Diploma.

Found/World Hist/Geog 1 (781080)
Grade: 9, 10, 11, 12 Credit: one

Foundations of World History/Geography is a one-credit elective course designed to support instruction along the FCPS Program of Studies and the VA Essentialized Standards of Learning (VESOL) in the identified content area; does not require SOL testing. Students may enroll in this elective class each year of HS participation. Instruction is individualized based on needs identified in the IEP to help students gain a basic content vocabulary, knowledge and skills and designed to be taught at the learning pace of the individual students. Participation in Foundations courses will aid the student in fulfilling requirements of the Virginia Alternative Assessment Program (VAAP) and meet the requirements for an Applied Studies Diploma.

Individual Math (312180)
Grade: 9, 10, 11, 12 Credit: one

The purpose of this course is to provide instruction of foundational mathematics skills to special education students who are functioning more than two years below grade level in mathematics. The course is designed to present the foundational skills necessary to enter Algebra 1 using manipulatives, special materials, and adaptive strategies. The course may include number concepts, mental mathematics, estimation, problem solving, operations, measurement, geometry, data analysis, statistics, probability, and fractions. This course should be reflected in the student's IEP. This course does not meet the mathematics graduation requirements for the Standard or Advanced Studies Diploma. Students earn elective credit.

Life Skills (798800)
Grade: 9, 10, 11, 12 Credit: one

This comprehensive individualized program is designed to prepare students for a style of living that will require a minimum of dependence on family. The course is geared to meet the needs of the students as they prepare to enter employment and emphasizes developing interpersonal skills, following directions, working independently, completing a task, and developing self-advocacy and other community living skills.

Literacy Essentials (118080)
Grade: 9, 10, 11, 12 Credit: one

This course is designed to provide direct, explicit and intensive literacy instruction to students with disabilities who are reading and/or writing

significantly below grade level. Basic objectives of this literacy course is focused on closing the gap between the student's present level of performance and the level of performance needed to successfully access the general curriculum. Instruction focuses on increasing student's decoding, fluency and comprehension skills of fiction and nonfiction materials, and improving writing skills across the curriculum which is based on the diagnosis of each student's needs as outlined through the student's Individual Education Program (IEP). Students successfully completing two years of this course will satisfy the sequential elective requirement for the Standard Diploma and the Standard Diploma with credit accommodations.

Personal Development (781580)
Grade: 9, 10, 11, 12 Credit: one

This course is designed to provide instruction to enhance personal development and interpersonal skills for students with disabilities. In addition, this course will provide social and/or emotional support in order to progress in the general education curriculum. Students who participate in the course have documented social and/or emotional needs in their individualized education program (IEP) and/or have a Behavior Intervention Plan (BIP). The areas of instruction for this course include peer relations, self-management, academic skills, compliance skills, and assertion skills. This course may be taught for an elective credit all four years or more, as appropriate. Students successfully completing two years of this course will satisfy the sequential elective requirement for the Standard and Modified Standard Diploma.

Strats for Success (788980)
Grade: 9, 10, 11, 12 Credit: one

This elective course is designed to provide support to a student in core curricular areas and to provide direct instruction in specific learning strategies, study skills, time management, organization, and self-advocacy skills. Time is also allotted to address individual areas of need as identified in a student's Individual Educational Plan (IEP). While students may receive assistance on core curricular assignments, the course is not designed to serve as a study hall. Students enrolled in the course receive the equivalent of one period of instruction each day and earn an elective credit. This course may be taught for an elective credit all four years or more, as appropriate. Students successfully completing two years of this course will satisfy the sequential elective requirement for the Standard and Modified Standard Diploma. (Students may be awarded a half-credit upon completion of a full semester of placement in the Strategies for Success course. Such a decision is made by the school counselor in conjunction with the special education department chair.)

Work Aware & Trans (907161)
Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Placement must first be determined through the IEP process

This option is available to high school students receiving special education services. Students explore potential career options while developing/improving skills needed for success in employment such as interpersonal/co-worker relationships and self-advocacy skills. Students participate in career activities and work-based learning, explore various educational options, and develop or revise a plan related to their academic and career-related goals.

Work Aware & Trans (907162)
Grade: 9, 10, 11, 12 Credit: two
Prerequisite: Placement must first be determined through the IEP process

This option is available to high school students receiving special education services. Students explore potential career options while developing/improving skills needed for success in employment such as interpersonal/co-worker relationships and self-advocacy skills. Students participate in career activities and work-based learning, explore various educational options, and develop or revise a plan related to their academic and career-related goals.

WORLD LANGUAGES **AMERICAN SIGN LANGUAGE**

Am Sign Language 1 – Falls Church Acad
Academy course enrollment must be approved by the appropriate Academy.

(599026)
Grade: 9, 10, 11, 12 Credit: one

Students develop the ability to communicate in American Sign Language about themselves and their immediate environment using simple sentences containing basic language structures. Students begin to explore and study the POS themes of About Me, My Family, My School, Food, and Clothing. For middle school students this credit becomes a part of the high school transcript and is included in the determination of the high school grade point average (GPA) and counts toward fulfilling the world languages requirement of the high school Advanced Studies diploma. It also counts toward the total number of credits required for graduation.

Am Sign Language 1 – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(599099)
Grade: 8, 9, 10, 11, 12 Credit: one

Students develop the ability to communicate in American Sign Language about themselves and their immediate environment using simple sentences containing basic language structures. Students begin to explore and study the POS themes of About Me, My Family, My School, Food, and Clothing. For middle

school students this credit becomes a part of the high school transcript and is included in the determination of the high school grade point average (GPA) and counts toward fulfilling the world languages requirement of the high school Advanced Studies diploma. It also counts toward the total number of credits required for graduation.

Am Sign Language 2 – Falls Church Acad
Academy course enrollment must be approved by the appropriate Academy.

(599526)
Grade: 9, 10, 11, 12 Credit: one
Prerequisite: ASL 1 or equivalency test.

Students continue to develop proficiency in American Sign Language. They learn to function in real-life situations using more complex language structures and a wider range of vocabulary. Students continue to explore as they study the themes of My Activities, My Home Life, Around Town/Travel, Health & Fitness, and Stories. This course may be counted as a world languages course in fulfilling requirements for the Advanced Studies Diploma.

Am Sign Language 2 – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(599599)
Grade: 8, 9, 10, 11, 12 Credit: one
Prerequisite: American Sign Language 1 or equivalency test

Students continue to develop proficiency in American Sign Language. They learn to function in real-life situations using more complex language structures and a wider range of vocabulary. Students continue to explore as they study the themes of My Activities, My Home Life, Around Town/Travel, Health & Fitness, and Stories. This course may be counted as a world languages course in fulfilling requirements for the Advanced Studies Diploma.

Am Sign Language 3 – Falls Church Acad
Academy course enrollment must be approved by the appropriate Academy.

(599726)
Grade: 9, 10, 11, 12 Credit: one
Prerequisite: ASL 2 or equivalency test.

Students continue to develop and refine their proficiency in American Sign Language. They communicate using more complex language structures on a variety of topics moving from concrete to more abstract concepts. At this level students add vocabulary and idiomatic expressions in the context of everyday interactions and social relationships. Students gain a deeper understanding of the world around them while studying the themes of My Memories, Teen Life, My Future, Conservation & Ecology, and Literature and Media. This course may be counted as a world languages course in fulfilling requirements for the Advanced Studies Diploma.

Am Sign Language 3 – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(599799)
Grade: 9, 10, 11, 12 Credit: one
Prerequisite: ASL 2 or equivalency test

Students continue to develop and refine their proficiency in American Sign Language. They communicate using more complex language structures on a variety of topics moving from concrete to more abstract concepts. At this level students add vocabulary and idiomatic expressions in the context of everyday interactions and social relationships. Students gain a deeper understanding of the world around them while studying the themes of My Memories, Teen Life, My Future, Conservation & Ecology, and Literature and Media. This course may be counted as a world languages course in fulfilling requirements for the Advanced Studies Diploma.

Am Sign Language 4 HN – Falls Church
Academy course enrollment must be approved by the appropriate Academy.

(599826)
Grade: 10, 11, 12 Credit: one / weighted +0.5
Prerequisite: Prerequisite: ASL 3 or equivalency test

Students continue to develop and refine their proficiency in American Sign Language. They communicate using complex language structures on a variety of topics, moving from concrete to abstract concepts. At this level, students add vocabulary and idiomatic expressions in the context of everyday interactions and social relationships. Students begin to explore the world of interpretation. Students gain a deeper understanding of the world around them while studying Deaf Heritage and Culture, Globalization, Environment, Technology and Innovations, and Human Expression.

Am Sign Language 4 HN – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(599899)
Grade: 10, 11, 12 Credit: one / weighted +0.5
Prerequisite: ASL 3 or equivalency test

Students continue to develop and refine their proficiency in American Sign Language. They communicate using complex language structures on a variety of topics, moving from concrete to abstract concepts. At this level, students add vocabulary and idiomatic expressions in the context of everyday interactions and social relationships. Students begin to explore the world of interpretation. Students gain a deeper understanding of the world around them while studying Deaf Heritage and Culture, Globalization, Environment, Technology and Innovations, and Human Expression.

Am Sign Language 4 DE – Falls Church
Academy course enrollment must be approved by the appropriate Academy.

(5998DA)
Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Am Sign Language 3

Students continue to develop and refine their proficiency in American Sign Language. They communicate using complex language structures on a variety of topics, moving from concrete to abstract concepts. At this level, students add vocabulary and idiomatic expressions in the context of everyday interactions and social relationships. Students begin to explore the world of interpretation. Students gain a deeper understanding of the world around them while studying Deaf Heritage and Culture, Globalization, Environment, Technology and innovations, and Human Expression.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment.

Am Sign Language 4 DE – Online Campus
Online Campus course enrollment must be approved by the Online Campus.

(5998D9)
Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Am Sign Language 3

Students continue to develop and refine their proficiency in American Sign Language. They communicate using complex language structures on a variety of topics, moving from concrete to abstract concepts. At this level, students add vocabulary and idiomatic expressions in the context of everyday interactions and social relationships. Students begin to explore the world of interpretation. Students gain a deeper understanding of the world around them while studying Deaf Heritage and Culture, Globalization, Environment, Technology and innovations, and Human Expression.

To enroll in this course, students must meet the college admission criteria. For more information about dual enrollment courses, visit www.fcps.edu/academics/high-school-academics-9-12/advanced-academics/dual-enrollment.

Am Sign Language 5 HN – Falls Church
Academy course enrollment must be approved by the appropriate Academy.

(599926)
Grade: 10, 11, 12 Credit: one / weighted +0.5
Prerequisite: ASL 4 or equivalency test.

Students continue to develop and refine their proficiency in American Sign Language. They communicate using complex language structures on a variety of topics, moving from concrete to abstract concepts. At this level, students add vocabulary and idiomatic expressions in the context of everyday

interactions and social relationships. Students begin to explore the world of interpretation. Students gain a deeper understanding of the world around them while studying Deaf Heritage and Culture, Globalization, Environment, Technology and Innovations, and Human Expression.

WORLD LANGUAGES

ARABIC

Arabic 1 (501000)
Grade: 8, 9, 10, 11, 12 Credit: one

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. Students begin to explore and study the POS themes of About Me, My Family, My School, Food, and Clothing. For middle school students this credit becomes a part of the high school transcript and is included in the determination of the high school grade point average (GPA) and counts toward fulfilling the world languages requirement of the high school Advanced Studies diploma. It also counts toward the total number of credits required for graduation.

Arabic 1 – Online Campus (501099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 8, 9, 10, 11, 12 Credit: one

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. Students begin to explore and study the POS themes of About Me, My Family, My School, Food, and Clothing. For middle school students this credit becomes a part of the high school transcript and is included in the determination of the high school grade point average (GPA) and counts toward fulfilling the world languages requirement of the high school Advanced Studies diploma. It also counts toward the total number of credits required for graduation.

Arabic 2 (502000)
Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Arabic 1 or equivalency test

Students continue to develop proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. They learn to function in real-life situations using more complex sentences and language structures. They read material on familiar topics and produce short writing samples. Students continue to explore as they study the POS themes of My Activities, My Home Life, Around Town/Travel, Health & Fitness, and Stories.

Arabic 2 – Online Campus (502099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 8, 9, 10, 11, 12 Credit: one
Prerequisite: Prerequisite: Arabic 1 or equivalency test

Students continue to develop proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. They learn to function in real-life situations using more complex sentences and language structures. They read material on familiar topics and produce short writing samples. Students continue to explore as they study the POS themes of My Activities, My Home Life, Around Town/Travel, Health & Fitness, and Stories.

Arabic 3 (503000)
Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Arabic 2 or equivalency test

Students continue to develop and refine their proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. They communicate using more complex language structures on a variety of topics moving from concrete to more abstract concepts. At this level students comprehend the main ideas of the authentic materials that they read and hear and are able to identify significant details when the topics are familiar. Students gain a deeper understanding of the world around them while studying the POS themes of My Memories, Teen Life, My Future, Conservation & Ecology, and Literature and Media.

Arabic 3 – Online Campus (503099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Arabic 2 or equivalency test

Students continue to develop and refine their proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. They communicate using more complex language structures on a variety of topics moving from concrete to more abstract concepts. At this level students comprehend the main ideas of the authentic materials that they read and hear and are able to identify significant details when the topics are familiar. Students gain a deeper understanding of the world around them while studying the POS themes of My Memories, Teen Life, My Future, Conservation & Ecology, and Literature and Media.

Arabic 4 HN (504000)
Grade: 10, 11, 12 Credit: one / weighted +0.5
Prerequisite: Arabic 3 or equivalency test

Students develop more sophisticated communication skills in all four areas - listening, speaking, reading, and writing - with emphasis on the ability to interact

orally and in writing. The authentic reading selections are emphasized at this level. Students communicate using more complex language structures and express abstract ideas with reasonable fluency. Students are able to create and listen with understanding to reports and presentations. They are also able to describe, summarize and discuss selected upper level POS themes and topics: Heritage and Culture, Globalization, Environment, Technology and Innovations, and Human Expression.

Arabic 4 HN – Online Campus (504099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 10, 11, 12 Credit: one / weighted +0.5
Prerequisite: Arabic 3 or equivalency test

Students develop more sophisticated communication skills in all four areas - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. The authentic reading selections are emphasized at this level. Students communicate using more complex language structures and express abstract ideas with reasonable fluency. Students are able to create and listen with understanding to reports and presentations. They are also able to describe, summarize and discuss selected upper level POS themes and topics: Heritage and Culture, Globalization, Environment, Technology and Innovations, and Human Expression.

Arabic 5 HN (505000)
Grade: 11, 12 Credit: one / weighted +0.5
Prerequisite: Arabic 4, or equivalency test

Students develop more sophisticated communication skills in all four areas - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. The authentic reading selections are emphasized at this level. Students communicate using more complex language structures and express abstract ideas with reasonable fluency. Students are able to create and listen with understanding to reports and presentations. They are also able to describe, summarize and discuss selected upper level POS themes and topics: Heritage and Culture, Globalization, Environment, Technology and Innovations, and Human Expression.

IB Arabic SL 1 (505207)
Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Three years of Arabic or equivalency test and permission of instructor

Academy course enrollment must be approved by the appropriate Academy.

In this course students continue their development of proficiency in listening, speaking, reading, and writing Arabic. Emphasis is placed on using these skills in realistic contexts utilizing authentic materials, to include recordings, films, newspapers and magazines. Examples and questions from past IB exams are used as learning tools at appropriate times throughout the course. IB Arabic SL 1, together with IB Arabic SL 2

prepares students to take the standard level IB examination.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Arabic SL 2 (506208)
Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Four years of Arabic or equivalency test and permission of instructor. IB Arabic SL 1 is preferred immediately prior to this course.

IB Arabic SL 2 is the second segment of a two-year series that prepares students to take the IB Arabic SL Exam. The development of all language skills - listening, speaking, reading, writing - continues, with emphasis on using the language in realistic contexts with authentic materials, to include films, recordings, newspapers and magazines. Selected literary works may be included. Examples and questions from past IB exams are used as learning tools at appropriate times throughout the course.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Arabic HL 2 (506209)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: IB Arabic HL1 is required immediately prior to this course. Exceptions can be made on a case-by-case basis with documentation of demonstrated proficiency and approval from the International Baccalaureate Organization.

IB Arabic HL 2 is the second segment of a two-year series that prepares students to take the IB Arabic HL exam. The development of all language skills - listening, speaking, reading, writing - continues, with emphasis on using the language in realistic contexts with authentic materials, to include films, recordings, newspapers and magazines, as well as selected literary works. Examples and questions from past IB exams are used as learning tools at appropriate times throughout the course.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

WORLD LANGUAGES

CHINESE

Chinese 1 – Marshall Academy (581026)
Academy course enrollment must be approved by the appropriate Academy.
Grade: 9, 10, 11, 12 Credit: one

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. Students begin to explore and study the POS themes of About Me, My Family, My School, Food, and Clothing. For middle school students this credit becomes a part of the high school transcript and is included in the determination of the high school grade point average (GPA) and counts toward fulfilling the world languages requirement of the high school Advanced Studies diploma. It also counts toward the total number of credits required for graduation.

Chinese 1 – Online Campus (581099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 8, 9, 10, 11, 12 Credit: one

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. Students begin to explore and study the POS themes of About Me, My Family, My School, Food, and Clothing. For middle school students this credit becomes a part of the high school transcript and is included in the determination of the high school grade point average (GPA) and counts toward fulfilling the world languages requirement of the high school Advanced Studies diploma. It also counts toward the total number of credits required for graduation.

Chinese 2 – Marshall Academy (582026)
Academy course enrollment must be approved by the appropriate Academy.

Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Chinese 1 or equivalency test

Students continue to develop proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. They learn to function in real-life situations using more complex sentences and language structures. They read material on familiar topics and produce short writing samples. Students continue to explore as they study the POS themes of My Activities, My Home Life, Around Town/Travel, Health & Fitness, and Stories.

Chinese 2 – Online Campus (582099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 8, 9, 10, 11, 12 Credit: one
Prerequisite: Chinese 1 or equivalency test

Students continue to develop proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. They learn to function in real-life situations using more complex sentences and language structures. They read material on familiar topics and produce short writing samples. Students continue to explore as they study the POS themes of My Activities, My Home Life, Around Town/Travel, Health & Fitness, and Stories.

Chinese 3 – Marshall Academy (583026)
Academy course enrollment must be approved by the appropriate Academy.

Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Chinese 2 or equivalency test

Students continue to develop and refine their proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. They communicate using more complex language structures on a variety of topics moving from concrete to more abstract concepts. At this level students comprehend the main ideas of the authentic materials that they read and hear and are able to identify significant details when the topics are familiar. Students gain a deeper understanding of the world around them while studying the POS themes of My Memories, Teen Life, My Future, Conservation & Ecology, and Literature and Media.

Chinese 3 – Online Campus (583099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Chinese 2 or equivalency test

Students continue to develop and refine their proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. They communicate using more complex language structures on a variety of topics moving from concrete to more abstract concepts. At this level students comprehend the main ideas of the authentic materials that they read and hear and are able to identify significant details when the topics are familiar. Students gain a deeper understanding of the world around them while studying the POS themes of My Memories, Teen Life, My Future, Conservation & Ecology, and Literature and Media.

Chinese 4 HN – Marshall Academy (584026)
Academy course enrollment must be approved by the appropriate Academy.

Grade: 10, 11, 12 Credit: one / weighted +0.5
Prerequisite: Chinese 3 or equivalency test

Students develop more sophisticated communication skills in all four areas - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. The authentic reading selections are emphasized at this level. Students communicate using more complex language structures and express abstract ideas with reasonable fluency. Students are able to create and listen with understanding to reports and presentations. They are also able to describe, summarize and discuss selected upper level POS themes and topics: Heritage and Culture, Globalization, Environment, Technology and Innovations, and Human Expression.

Chinese 4 HN – Online Campus (584099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 10, 11, 12 Credit: one / weighted +0.5
Prerequisite: Chinese 3 or equivalency test

Students develop more sophisticated communication skills in all four areas - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. The authentic reading selections are emphasized at this level. Students communicate using more complex language structures and express abstract ideas with reasonable fluency. Students are able to create and listen with understanding to reports and presentations. They are also able to describe, summarize and discuss selected upper level POS themes and topics: Heritage and Culture, Globalization, Environment, Technology and Innovations, and Human Expression.

AP Chinese – Marshall Academy (584005)
Academy course enrollment must be approved by the appropriate Academy.

Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Chinese 4 or equivalency

In this course, students study the use of language for active communication. Emphasis is placed on the development of the three modes of communication (interpersonal, interpretive and presentational). The course is structured around six overarching themes: Beauty, and Aesthetics, Contemporary Life, Families and Communities, Global Challenges, Personal and Public Identities, and Science and Technology. Students use language structures in context and use them to convey meaning. The course promotes fluency and accuracy to facilitate the study of language and culture.

Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved.

IB Chinese SL 1 – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(584207)
Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Three years of Chinese or equivalency test and permission of instructor

In this course students continue to develop their proficiency in listening, speaking, reading and writing Chinese. Students communicate using more complex structures in the language on a variety of topics, moving from concrete to more abstract concepts. Students continue to develop the ability to comprehend the main ideas of authentic materials that they read and hear and to identify significant details when the topics are familiar. Chinese language is used extensively in the class as students develop the ability to discuss topics related to historical and contemporary events and issues. IB Chinese focuses on mastery of simplified Chinese characters and the Pinyin Romanization system. The language learning process integrates basic aspects of the geography, customs and culture of China. IB Chinese SL 1, together with IB Chinese SL 2, prepares students for the standard level IB exam. This course is only offered at the Marshall Academy.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Chinese SL 2 – Marshall Academy
Academy course enrollment must be approved by the appropriate Academy.

(585207)
Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Four years of Chinese or equivalency test and permission of instructor. IB Chinese SL 1 is preferred immediately prior to this course.

IB Chinese SL 2 is the second segment of a two-year series that prepares students to take the IB Chinese Exam. The development of all language skills - listening, speaking, reading, writing - continues, with emphasis on using the language in realistic contexts with authentic materials, to include films, recordings, newspapers and magazines. Selected literary works are included. Examples and questions from past IB exams are used as learning tools at appropriate times throughout the course.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

WORLD LANGUAGES

FRENCH

French 1 (511000)
Grade: 8, 9, 10, 11, 12 Credit: one

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. Students begin to explore and study the POS themes of About Me, My Family, My School, Food, and Clothing. For middle school students this credit becomes a part of the high school transcript and is included in the determination of the high school grade point average (GPA) and counts toward fulfilling the world languages requirement of the high school Advanced Studies diploma. It also counts toward the total number of credits required for graduation.

French 2 (512000)
Grade: 8, 9, 10, 11, 12 Credit: one
Prerequisite: French 1 or equivalency test

Students continue to develop proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. They learn to function in real-life situations using more complex sentences and language structures. They read material on familiar topics and produce short writing samples. Students continue to explore as they study the POS themes of My Activities, My Home Life, Around Town/Travel, Health & Fitness, and Stories.

French 3 (513000)
Grade: 9, 10, 11, 12 Credit: one
Prerequisite: French 2 or equivalency test

Students continue to develop and refine their proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. They communicate using more complex language structures on a variety of topics moving from concrete to more abstract concepts. At this level students comprehend the main ideas of the authentic materials that they read and hear and are able to identify significant details when the topics are familiar. Students gain a deeper understanding of the world around them while studying the POS themes of My Memories, Teen Life, My Future, Conservation & Ecology, and Literature and Media.

IB French SL 1 (514208)
Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Three years of French or equivalency test and permission of instructor

In this course students continue their development of proficiency in listening, speaking, reading and writing French. Emphasis is placed on using these skills in realistic contexts utilizing authentic materials, to

include recordings, films, newspapers and magazines. Examples and questions from past IB exams are used as learning tools at appropriate times throughout the course. IB French SL 1, together with IB French SL 2, prepares students to take the standard level examination.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB French SL 2 (515208)
Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Four years of French or equivalency test and permission of instructor. IB French SL 1 is preferred immediately prior to this course.

IB French SL 2 is the second segment of a two-year series that prepares students to take the IB French SL Exam. The development of all language skills - listening, speaking, reading, writing - continues, with emphasis on using the language in realistic contexts with authentic materials, to include films, recordings, newspapers and magazines. Selected literary works may be included. Examples and questions from past IB exams are used as learning tools at appropriate times throughout the course.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB French HL 2 (515209)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: IB French HL 1 is required immediately prior to this course. Exceptions can be made on a case-by-case basis with documentation of demonstrated proficiency and approval from the International Baccalaureate Organization.

IB French HL 2 is the second segment of a two-year series that prepares students to take the IB French HL Exam. The development of all language skills - listening, speaking, reading, writing - continues, with emphasis on using the language in realistic contexts with authentic materials, to include films, recordings, newspapers and magazines. Selected literary works are included. Examples and questions from past IB exams are used as learning tools at appropriate times throughout the course.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB French Lang & Lit SL 1 (514218)
Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Four years of French or equivalency test and permission of instructor.

This is the first year of a two-year intensive study of language and literature in French. Over these two years, students engage in close reading of literary texts, focusing on the relationship between literature

and broader societal issues while analyzing the rich complexities and intricacies of the works. They explore how language develops in specific cultural contexts, and how it impacts the world and our understanding of world issues. They also closely examine the ways language is used in the media. IB French Language and Literature SL 1, together with IB French Language and Literature SL 2, prepares students for the standard level exam.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB French Lang & Lit HL 1 (514219)
Grade: 11, 12 Credit: one / weighted +1.0
Prerequisite: Four years of French or equivalency test and permission of instructor.

This is the first year of a two-year intensive study of language and literature in French. Over these two years, students engage, by extension, in reading of literary texts, focusing on the relationship between literature and broader societal issues while analyzing the rich complexities and intricacies of the works. They explore how language develops in specific cultural contexts, and how it impacts the world and our understanding of world issues. They also closely examine the ways language is used in the media. IB French Language and Literature HL 1, together with IB French Language and Literature HL 2, prepares students for the higher level exam.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB French Lang & Lit HL 2 (515219)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: IB French Language and Literature HL 1

This is the second year of a two-year intensive study of language and literature in French. Over these two years, students engage, by extension, in reading of literary texts, focusing on the relationship between literature and broader societal issues while analyzing the rich complexities and intricacies of the works. Students demonstrate an increasing proficiency in specific cultural contexts, and how it impacts the world and our understanding of world issues. They also develop an understanding of the techniques involved in literary study and criticism, and engage in a detailed and critical examination of written works.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

WORLD LANGUAGES

KOREAN

Korean 1 – Fairfax Academy (587026) Academy course enrollment must be approved by the appropriate Academy.

Grade: 9, 10, 11, 12 Credit: one

Students continue to develop and refine their proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. They communicate using more complex language structures on a variety of topics moving from concrete to more abstract concepts. At this level students comprehend the main ideas of the authentic materials that they read and hear and are able to identify significant details when the topics are familiar. Students gain a deeper understanding of the world around them while studying the POS themes of My Memories, Teen Life, My Future, Conservation & Ecology, and Literature and Media.

Korean 1 – Online Campus (587099) Online Campus course enrollment must be approved by the Online Campus.

Grade: 8, 9, 10, 11, 12 Credit: one

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. Students begin to explore and study the POS themes of About Me, My Family, My School, Food, and Clothing. For middle school students this credit becomes a part of the high school transcript and is included in the determination of the high school grade point average (GPA) and counts toward fulfilling the world languages requirement of the high school Advanced Studies diploma. It also counts toward the total number of credits required for graduation.

Korean 2 – Fairfax Academy (587526) Academy course enrollment must be approved by the appropriate Academy.

Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Korean 1 or equivalency test

Students continue to develop proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. They learn to function in real-life situations using more complex sentences and language structures. They read material on familiar topics and produce short writing samples. Students continue to explore as they study the POS themes of My Activities, My Home Life, Around Town/Travel, Health & Fitness, and Stories.

Korean 2 – Online Campus (587599) Online Campus course enrollment must be approved by the Online Campus.

Grade: 8, 9, 10, 11, 12 Credit: one
Prerequisite: Korean 1 or permission of instructor

Students continue to develop proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. They learn to function in real-life situations using more complex sentences and language structures. They read material on familiar topics and produce short writing samples. Students continue to explore as they study the POS themes of My Activities, My Home Life, Around Town/Travel, Health & Fitness, and Stories.

Korean 3 – Fairfax Academy (588025) Academy course enrollment must be approved by the appropriate Academy.

Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Korean 2 or equivalency test

Students continue to develop and refine their proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. They communicate using more complex language structures on a variety of topics moving from concrete to more abstract concepts. At this level students comprehend the main ideas of the authentic materials that they read and hear and are able to identify significant details when the topics are familiar. Students gain a deeper understanding of the world around them while studying the POS themes of My Memories, Teen Life, My Future, Conservation & Ecology, and Literature and Media.

Korean 3 – Online Campus (588099) Online Campus course enrollment must be approved by the Online Campus.

Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Korean 2 or permission of instructor

Students continue to develop and refine their proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. They communicate using more complex language structures on a variety of topics moving from concrete to more abstract concepts. At this level students comprehend the main ideas of the authentic materials that they read and hear and are able to identify significant details when the topics are familiar. Students gain a deeper understanding of the world around them while studying the POS themes of My Memories, Teen Life, My Future, Conservation & Ecology, and Literature and Media.

Korean 4 HN – Fairfax Academy (588525) Academy course enrollment must be approved by the appropriate Academy.

Grade: 9, 10, 11, 12
Credit: one / weighted +0.5
Prerequisite: Korean 3 or equivalency test

Students develop more sophisticated communication skills in all four areas - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. The authentic reading selections are emphasized at this level. Students communicate using more complex language structures and express abstract ideas with reasonable fluency. Students are able to create and listen with understanding to reports and presentations. They are also able to describe, summarize and discuss selected upper level POS themes and topics: Heritage and Culture, Globalization, Environment, Technology and Innovations, and Human Expression.

Korean 4 HN – Online Campus (588599) Online Campus course enrollment must be approved by the Online Campus.

Grade: 10, 11, 12
Credit: one / weighted +0.5
Prerequisite: Korean 3 or equivalency test

Students develop more sophisticated communication skills in all four areas - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. The authentic reading selections are emphasized at this level. Students communicate using more complex language structures and express abstract ideas with reasonable fluency. Students are able to create and listen with understanding to reports and presentations. They are also able to describe, summarize and discuss selected upper level POS themes and topics: Heritage and Culture, Globalization, Environment, Technology and Innovations, and Human Expression.

Korean 5 HN – Fairfax Academy (589026) Academy course enrollment must be approved by the appropriate Academy.

Grade: 10, 11, 12 Credit: one / weighted +0.5
Prerequisite: Korean 4 or equivalency test.

Students develop more sophisticated communication skills in all four areas - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. The authentic reading selections are emphasized at this level. Students communicate using more complex language structures and express abstract ideas with reasonable fluency. Students are able to create and listen with understanding to reports and presentations. They are also able to describe, summarize and discuss selected upper level POS themes and topics: Heritage and Culture, Globalization, Environment, Technology and Innovations, and Human Expression.

WORLD LANGUAGES

LATIN

Latin 1 (531000)
Grade: 8, 9, 10, 11, 12 Credit: one

Students learn basic language structures and essential elements of Latin pronunciation in order to be able to read simple passages in Latin. The relationship of English to Latin is emphasized in vocabulary building, word derivation, and meanings of prefixes and suffixes. Language structures and syntax are developed through the study of literary passages. Students will study the identities, society, and history of the Roman Monarchy while learning about Roman families, clothing, housing, geography, mythology, and monarchy. For middle school students, this credit becomes a part of the high school transcript, is included in the determination of the high school grade point average (GPA), and counts toward fulfilling the world languages requirements of the high school Advanced Studies diploma. It also counts toward the total number of credits required for graduation.

WORLD LANGUAGES

SPANISH

Spanish 1 (551000)
Grade: 8, 9, 10, 11, 12 Credit: one

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. Students begin to explore and study the POS themes of About Me, My Family, My School, Food, and Clothing. For middle school students this credit becomes a part of the high school transcript and is included in the determination of the high school grade point average (GPA) and counts toward fulfilling the world languages requirement of the high school Advanced Studies diploma. It also counts toward the total number of credits required for graduation.

Spanish 1 – Online Campus (551099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 8, 9, 10, 11, 12 Credit: one

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. Students begin to explore and study the POS themes of About Me, My Family, My School, Food, and Clothing. For middle school students this credit becomes a part of the high school transcript and is included in the determination of the high school grade point average (GPA) and counts

toward fulfilling the world languages requirement of the high school Advanced Studies diploma. It also counts toward the total number of credits required for graduation.

Span Heritage Spkrs 1 (551100)
Grade: 8, 9, 10, 11, 12 Credit: one

This course offers heritage speakers of Spanish the opportunity to strengthen their basic skills in reading and writing Spanish. Students continue to study the influences of the Spanish language and Hispanic culture, historical figures, events, personalities, literature, points of view, etc., and their contributions to the English language and American culture. Middle School: credit becomes a part of the high school transcript, is included in the determination of the high school grade point average (GPA), and counts toward fulfilling the world languages requirements of the high school Advanced Studies diploma. It also counts toward the total number of credits required for graduation.

Spanish 2 (552000)
Grade: 8, 9, 10, 11, 12 Credit: one
Prerequisite: Spanish 1 or equivalency test

Students continue to develop proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. They learn to function in real-life situations using more complex sentences and language structures. They read material on familiar topics and produce short writing samples. Students continue to explore as they study the POS themes of My Activities, My Home Life, Around Town/Travel, Health & Fitness, and Stories.

Spanish 2 – Online Campus (552099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 8, 9, 10, 11, 12 Credit: one
Prerequisite: Level 1 or equivalency test.

Students continue to develop proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. They learn to function in real-life situations using more complex sentences and language structures. They read material on familiar topics and produce short writing samples. Students continue to explore as they study the POS themes of My Activities, My Home Life, Around Town/Travel, Health & Fitness, and Stories.

Span Heritage Spkrs 2 (552100)
Grade: 8, 9, 10, 11, 12 Credit: one
Prerequisite: Spanish for Heritage Speakers 1 or permission from instructor

This course, designed for heritage speakers of Spanish, continues to emphasize the improvement of students' skills in speaking, reading, and writing in Spanish. Students read and critique literary works and make oral presentations. The writing and reading processes are emphasized to ensure growth in both

skills. Students continue to study the influences of the Spanish language and Hispanic culture, historical figures, events, personalities, literature, points of view, etc., and their contributions to the English language and American culture. Middle School: credit becomes a part of the high school transcript, is included in the determination of the high school grade point average (GPA), and counts toward fulfilling the world languages requirements of the high school Advanced Studies diploma. It also counts toward the total number of credits required for graduation.

Spanish 3 (553000)
Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Spanish 2 or equivalency test

Students continue to develop and refine their proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. They communicate using more complex language structures on a variety of topics moving from concrete to more abstract concepts. At this level students comprehend the main ideas of the authentic materials that they read and hear and are able to identify significant details when the topics are familiar. Students gain a deeper understanding of the world around them while studying the POS themes of My Memories, Teen Life, My Future, Conservation & Ecology, and Literature and Media.

Spanish 3 – Online Campus (553099)
Online Campus course enrollment must be approved by the Online Campus.

Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Spanish 2 or equivalency test.

Students continue to develop and refine their proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. They communicate using more complex language structures on a variety of topics moving from concrete to more abstract concepts. At this level students comprehend the main ideas of the authentic materials that they read and hear and are able to identify significant details when the topics are familiar. Students gain a deeper understanding of the world around them while studying the POS themes of My Memories, Teen Life, My Future, Conservation & Ecology, and Literature and Media.

Span Heritage Spkrs 3 (553100)
Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Spanish for Heritage Speakers 2 or permission from instructor

This course, designed for heritage speakers of Spanish, continues to emphasize the refinement of proficiency in reading, writing, and speaking Spanish. Students develop research skills through the reading and critiquing of literary works. Students continue to study the influences of the Spanish language and Hispanic culture, historical figures, events, personalities, literature, points of view, etc., and their contributions to the English language and American

culture. The course is conducted in Spanish and counts toward fulfilling the world languages requirement of the high school Advanced Studies diploma.

Spanish 4 HN (554000)

Grade: 9, 10, 11, 12

Credit: one / weighted +0.5

Prerequisite: Spanish 3 or equivalency test

Students develop more sophisticated communication skills in all four areas - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. The authentic reading selections are emphasized at this level. Students communicate using more complex language structures and express abstract ideas with reasonable fluency. Students are able to create and listen with understanding to reports and presentations. They are also able to describe, summarize and discuss selected upper level POS themes and topics: Heritage and Culture, Globalization, Environment, Technology and Innovations, and Human Expression.

Rising 9th grade students currently enrolled in Spanish Immersion 3 at Middle School should enroll in this course.

Spanish 5 HN (555000)

Grade: 10, 11, 12

Credit: one / weighted +0.5

Prerequisite: Spanish 4, or Advanced Placement Language and Culture, or equivalency test

Students develop more sophisticated communication skills in all four areas - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. The authentic reading selections are emphasized at this level. Students communicate using more complex language structures and express abstract ideas with reasonable fluency. Students are able to create and listen with understanding to reports and presentations. They are also able to describe, summarize and discuss selected upper level POS themes and topics: Heritage and Culture, Globalization, Environment, Technology and Innovations, and Human Expression.

Rising 10th grade students currently enrolled in Spanish 4 should enroll in this course.

AP Spanish Language – Online Campus **Online Campus course enrollment must be approved by the Online Campus.**

(557093)

Grade: 11, 12 Credit: one / weighted +1.0

Prerequisite: Level 4 or equivalency test

Students study the use of language for active communication. Specifically, they understand the spoken target language in both formal and conversational situations. They express ideas accurately and resourcefully, both orally and in writing, with reasonable fluency, and they develop a vocabulary sufficiently ample for reading newspaper and magazine articles, contemporary literature, and

other non technical writings. They receive extensive training in the organization and writing of compositions, review syntax, and study selected works by contemporary authors. Materials will include recordings, films, newspapers, and magazines.

Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved.

AP Spanish Literature – Online Campus **Online Campus course enrollment must be approved by the Online Campus.**

(558093)

Grade: 11, 12 Credit: one / weighted +1.0

Prerequisite: Level 4, Advanced Placement Spanish Language and culture, or equivalency test

The AP Spanish Literature and Culture course uses a thematic approach to introduce students to representative texts (short stories, novels, poetry, and essays) from Peninsular Spanish, Latin American, and United States Hispanic literature. Students develop proficiencies across the full range of communication modes (interpersonal, presentational, and interpretive). The course includes a strong focus on cultural connections and comparisons.

Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved.

IB Spanish SL 1 (554208)

Grade: 11, 12 Credit: one / weighted +1.0

Prerequisite: Three years of Spanish or equivalency test and permission of instructor

In this course students continue their development of proficiency in listening, speaking, reading and writing Spanish. Emphasis is placed on using these skills in realistic contexts utilizing authentic materials; to include recordings, films, newspapers and magazines. Examples and questions from past IB exams are used as learning tools at appropriate times throughout the course. IB Spanish SL 1, together with IB Spanish SL 2, prepares students to take the standard level examination.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Spanish SL 2 (555208)

Grade: 11, 12 Credit: one / weighted +1.0

Prerequisite: Four years of Spanish or equivalency test and permission of instructor. IB Spanish SL 1 is preferred immediately prior to this course.

IB Spanish SL 2 is the second segment of a two-year series that prepares students to take the IB Spanish SL Exam. The development of all language skills-

listening, speaking, reading, writing-continues, with emphasis on using the language in realistic contexts with authentic materials, to include films, recordings, newspapers and magazines. Selected literary works may be included. Examples and questions from past IB exams are used as learning tools at appropriate times throughout the course.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Spanish HL 2 (555209)

Grade: 12 Credit: one / weighted +1.0

Prerequisite: IB Spanish HL 1 is required immediately prior to this course. Exceptions can be made on a case-by-case basis with documentation of demonstrated proficiency and approval from the International Baccalaureate Organization.

IB Spanish HL 2, is the second segment of a two-year series that prepares students to take the IB Spanish HL Exam. The development of all language skills- listening, speaking, reading, writing-continues, with emphasis on using the language in realistic contexts with authentic materials, to include films, recordings, newspapers and magazines. Selected literary works are included. Examples and questions from past IB exams are used as learning tools at appropriate times throughout the course.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Spanish Lang& Lit SL 1 (554108)

Grade: 11, 12 Credit: one / weighted +1.0

Prerequisite: Spanish for Heritage Speakers 3 or the equivalent and permission of the instructor.

This is the first year of a two-year intensive study of language and literature in Spanish. Over these two years, students engage in close reading of literary texts, focusing on the relationship between literature and broader societal issues while analyzing the rich complexities and intricacies of the works. They explore how language develops in specific cultural contexts, and how it impacts the world and our understanding of world issues. They also closely examine the ways language is used in the media. IB Spanish Language and Literature SL 1, together with IB Spanish Language and Literature SL 2, prepares students for the standard level exam.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Spanish Lang& Lit SL 2 (555108)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: IB Spanish Language and Literature SL 1

This is the second year of a two-year intensive study of language and literature in Spanish. Over these two years, students engage in close reading of literary texts, focusing on the relationship between literature and broader societal issues while analyzing the rich complexities and intricacies of the works. Students demonstrate an increasing proficiency in specific cultural contexts, and how it impacts the world and our understanding of world issues. They also develop an understanding of the techniques involved in literary study and criticism.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

IB Spanish Lang& Lit HL 2 (555109)
Grade: 12 Credit: one / weighted +1.0
Prerequisite: IB Spanish Language and Literature HL 1

This is the second year of a two-year intensive study of language and literature in Spanish. Over these two years, students engage, by extension, in reading of literary texts, focusing on the relationship between literature and broader societal issues while analyzing the rich complexities and intricacies of the works. Students demonstrate an increasing proficiency in specific cultural contexts, and how it impacts the world and our understanding of world issues. They also develop an understanding of the techniques involved in literary study and criticism, and engage in a detailed and critical examination of written works.

Students who complete this course are encouraged to take the associated International Baccalaureate examination and may earn college credit if a qualifying score is achieved.

WORLD LANGUAGES VIETNAMESE

Vietnamese 1 – Falls Church Academy
Academy course enrollment must be approved by the appropriate Academy.

(598026)
Grade: 9, 10, 11, 12 Credit: one

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. Students begin to explore and study the POS themes of About Me, My Family, My School, Food, and Clothing. For middle school students this credit becomes a part of the high school transcript and is included in the determination of the high school grade point average (GPA) and counts toward fulfilling the world languages requirement of the high school Advanced Studies diploma. It also counts toward the total number of credits required for graduation.

Vietnamese 2 – Falls Church Academy
Academy course enrollment must be approved by the appropriate Academy.

(598126)
Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Vietnamese 1 or equivalency test.

Students continue to develop proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. They learn to function in real-life situations using more complex sentences and language structures. They read material on familiar topics and produce short writing samples. Students continue to explore as they study the POS themes of My Activities, My Home Life, Around Town/Travel, Health & Fitness, and Stories.

Vietnamese 3 – Falls Church Academy
Academy course enrollment must be approved by the appropriate Academy.

(598226)
Grade: 9, 10, 11, 12 Credit: one
Prerequisite: Vietnamese 2 or equivalency test.

Students continue to develop and refine their proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the

ability to interact orally and in writing. They communicate using more complex language structures on a variety of topics moving from concrete to more abstract concepts. At this level students comprehend the main ideas of the authentic materials that they read and hear and are able to identify significant details when the topics are familiar. Students gain a deeper understanding of the world around them while studying the POS themes of My Memories, Teen Life, My Future, Conservation & Ecology, and Literature and Media.

Vietnamese 4 HN – Falls Church Academy
Academy course enrollment must be approved by the appropriate Academy.

(598326)
Grade: 10, 11, 12 Credit: one / weighted +0.5
Prerequisite: Vietnamese 3 or equivalency test

Students develop more sophisticated communication skills in all four areas - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. The authentic reading selections are emphasized at this level. Students communicate using more complex language structures and express abstract ideas with reasonable fluency. Students are able to create and listen with understanding to reports and presentations. They are also able to describe, summarize and discuss selected upper level POS themes and topics: Heritage and Culture, Globalization, Environment, Technology and Innovations, and Human Expression.

Vietnamese 5 HN – Falls Church Academy
Academy course enrollment must be approved by the appropriate Academy.

(598426)
Grade: 10, 11, 12 Credit: one / weighted +0.5
Prerequisite: Vietnamese 4 or equivalency test

Students develop more sophisticated communication skills in all four areas - listening, speaking, reading, and writing - with emphasis on the ability to interact orally and in writing. The authentic reading selections are emphasized at this level. Students communicate using more complex language structures and express abstract ideas with reasonable fluency. Students are able to create and listen with understanding to reports and presentations. They are also able to describe, summarize and discuss selected upper level POS themes and topics: Heritage and Culture, Globalization, Environment, Technology and Innovations, and Human Expression.