

JUSTICE HIGH SCHOOL

COURSE CATALOG

SCHOOL YEAR 2023-2024

Hanlon, Christy

COMPUTER SCIENCE

CS Foundations (6642CS)

Grades: 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.

Justice HS: If students took *Innov & Coding in Middle School*, they should not take this course.

CS Programming (664099)

Grades: 9, 10, 11, 12

Credit: one

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

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 (664100)

Grades: 10, 11, 12

Credit: one

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.

Advanced Programming (664199)

Grades: 10, 11, 12

Credit: one

Prerequisite: CS Programming

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

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 Program DE (6641D9)

Grades: 10, 11, 12

Credit: one / weighted +1.0

Prerequisite: CS Programming

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

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 Sci SL (318508)

Grades: 11, 12

Credit: one / weighted +1.0

Prerequisite: CS 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 Sci HL (318509)

Grades: 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)

Grades: 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 (840026)

Grades: 10, 11, 12

Credit: one

Prerequisite: CS Programming, Advanced Programming, or equivalent

Academy course enrollment must be approved by the appropriate Academy.

Fairfax HS Academy - transportation may be provided

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 (840126)

Grades: 11, 12

Credit: one

Academy course enrollment must be approved by the appropriate Academy. -

School Site Fairfax Academy

Fairfax HS Academy - transportation may be provided

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) 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.**

Cloud Computing (665128)**Grades: 11, 12****Credit: one****Prerequisite: Network Admin 1 or Cyber: Cisco 1****Academy course enrollment must be approved by the appropriate Academy. Marshall HS Academy - transportation may be provided**

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 (6651DU)**Grades: 11, 12****Credit: one / weighted +1.0****Prerequisite: Cyber: Network Admin 1 or Cyber: Cisco 1A & 1B****Academy course enrollment must be approved by the appropriate Academy. Marshall HS Academy - transportation may be provided**

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 (666028)**Grades: 10, 11, 12****Credit: one****Prerequisite: Cybersecurity Fundamentals, Programming or equivalent skill****Academy course enrollment must be approved by the appropriate Academy. Edison HS Academy - transportation may be provided**

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 (666228)**Grades: 11, 12****Credit: one****Prerequisite: Cyber: Oracle 1****Academy course enrollment must be approved by the appropriate Academy. Edison HS Academy - transportation may be provided**

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: Cisco 1 (854326)**Grades: 10, 11, 12****Credit: one****Prerequisite: Cybersecurity Fundamentals or equivalent skill****Academy course enrollment must be approved by the appropriate Academy. Marshall HS Academy - transportation may be provided**

This course teaches students the skills needed to obtain entry-level home network installer jobs. It also helps students develop some of the skills needed to become network technicians, computer technicians, cable installers, and help-desk technicians. It provides a hands-on introduction to networking and the Internet, using tools and hardware commonly found in home and small business environments. Labs include PC installation, Internet connectivity, wireless connectivity, file and print sharing, and the installation of game consoles, scanners, and cameras. 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 (854526)**Grades: 11, 12****Credit: one****Prerequisite: Cyber: Cisco 1****Academy course enrollment must be approved by the appropriate Academy. Marshall HS Academy - transportation may be provided**

This course familiarizes students with the equipment applications and protocols installed in enterprise networks, with a focus on switched networks, IP Telephony requirements, and security. It also introduces advanced routing protocols such as Enhanced Interior Gateway Routing Protocol (EIGRP) and Open Shortest Path First (OSPF) 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: Net Admin 1 (630426)**Grades: 10, 11, 12****Credit: one****Prerequisite: Cybersecurity Fundamentals or equivalent skill****Academy course enrollment must be approved by the appropriate Academy. Marshall HS Academy - transportation may be provided**

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 2 (630626)**Grades: 10, 11, 12****Credit: one****Prerequisite: Cyber: Network Administration 1****Academy course enrollment must be approved by the appropriate Academy. Marshall HS Academy - transportation may be provided**

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, and effectively using email and business communications. 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 (863026)
Grades: 11, 12 **Credit: one / weighted +1.0**
Prerequisite: Cyber: Network Administration and Cyber: Computer Systems Technology
Academy course enrollment must be approved by the appropriate Academy.
Marshall HS Academy - transportation may be provided

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 (854725)
Grades: 10, 11, 12 **Credit: one / weighted +0.5**
Prerequisite: STEM Engineering (845060) recommended or teacher approval
Academy course enrollment must be approved by the appropriate Academy.
Marshall HS Academy - transportation may be provided

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 are double-blocked into semester 1 and 2 courses, which make up a CTE completer. Students are expected to complete both courses in one year. **This course requires a student materials fee as listed in FCPS Notice 5922.**

Robotic Systems 2 (855825)
Grades: 10, 11, 12 **Credit: one / weighted +0.5**
Prerequisite: Robotic Systems 1 (854725)
Academy course enrollment must be approved by the appropriate Academy.
Marshall HS Academy - transportation may be provided

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 are double-blocked into semester 1 and 2 courses, which make up a CTE completer. Students are expected to complete both courses in one year. **This course requires a student materials fee as listed in FCPS Notice 5922.**

CTE

BUSINESS & INFORMATION TECHNOLOGY

IB Bus Mgmt SL (613508)
Grades: 11, 12 **Credit: one / weighted +1.0**

The IB Business Management SL course is designed to provide a broad introduction to the basic principles and practices of businesses and other organizations, both profit-making and nonprofit in nature. Fundamental principles and skills are studied in local, national and international context, thus affording the opportunity to reflect the differences in perspectives and cultures. Instruction includes units in introduction to business, marketing, finance, accounting, and human resource management. For students attending base schools that have the IB program, this course may serve as an elective ('Sixth Subject') in the IB Diploma program or may be taken independently for an IB certificate. 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 and the virtual course graduation requirement. FBLA, the co-curricular student organization, offers opportunities in leadership, community, 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 (632099)
Grades: 9, 10, 11, 12 **Credit: one**
Online Campus course enrollment must be approved by the Online Campus.

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 (632199)
Grades: 10, 11, 12 **Credit: one**
Prerequisite: Accounting (632000)
Online Campus course enrollment must be approved by the Online Campus.

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)
Grades: 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)
Grades: 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 and the use of the Microsoft Imagine Academy 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)**Grades: 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, the Microsoft Imagine Academy, and peripheral applications. 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 (661399)**Grades: 9, 10, 11, 12****Credit: one****Prerequisite: Information Systems (661200), or equivalent skill****Online Campus course enrollment must be approved by the Online Campus.**

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, the Microsoft Imagine Academy, and peripheral applications. 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.

Cyber: Exploring IT (862826)**Grades: 10, 11, 12****Credit: one****Prerequisite: Cybersecurity Fundamentals or equivalent skill****Academy course enrollment must be approved by the appropriate Academy.****Marshall HS Academy - transportation may be provided**

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 (862927)**Grades: 11, 12****Credit: two****Prerequisite: Cyber:Exploring IT (862826)****Enrollment in this course must be approved by the appropriate Academy.****Marshall HS Academy - transportation may be provided**

Building on the foundation of Cyber: Computer Systems Technology 1, this advanced course provides students with training in procedures for optimizing and troubleshooting concepts for computer systems and subsystems. Students explore wireless technologies (e.g., Bluetooth, Wi-Fi) and create and configure a network. 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: SystemsTech DE (8629DE)**Grades: 10, 11, 12****Credit: two / weighted +1.0****Enrollment in this course must be approved by the appropriate Academy.****Marshall HS Academy - transportation may be provided**

Building on the foundation of Computer Systems Technology 1, this advanced course provides students with training in procedures for optimizing and troubleshooting concepts for computer systems and subsystems. Students explore wireless technologies (e.g., Bluetooth, Wi-Fi) and create and configure a network. 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.

CTE**FAMILY & CONSUMER SCIENCES****Intro to Culinary (825026)****Grades: 10, 11, 12****Credit: one****Academy course enrollment must be approved by the appropriate Academy.****Marshall HS Academy - transportation may be provided**

This course focuses on identifying and exploring the individual careers within the foodservice industry. Units of study include investigating nutrition and menu development, diverse cuisines and service styles, examine the economics of food, practice food and beverage production and preparation, and implement food safety and sanitation procedures. FCCLA, 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.**

Culinary Arts 1 (827527)**Grades: 11, 12****Credit: two****Academy course enrollment must be approved by the appropriate Academy.****Marshall HS Academy - transportation may be provided**

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. The co-curricular student organization, FCCLA, offers opportunities in leadership, community, and competitive events. **This course requires a student materials fee as listed in FCPS Notice 5922.**

Culinary Arts 2 (827627)**Grades: 11, 12****Credit: two****Prerequisite: Culinary Arts 1 (827527)****Academy course enrollment must be approved by the appropriate Academy.****Marshall HS Academy - transportation may be provided**

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. Students may complete work-based learning in various food service venues, and at catered functions. The co-curricular student organization, FCCLA, offers opportunities in leadership, community, and competitive events. **This course requires a student materials fee as listed in FCPS Notice 5922.**

Culinary Operations (827426)**Grades: 12****Credit: one****Prerequisite: Culinary Arts 2 (827627 or 827600)****Academy course enrollment must be approved by the appropriate Academy.****Marshall HS Academy - transportation may be provided**

Culinary Operations provides students with skills and knowledge which enables them to manage all aspects of a restaurant. 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. **This course requires a student materials fee as listed in FCPS Notice 5922.**

Pastry Arts (827926)
Grades: 12 **Credit: one**
Prerequisite: Culinary Arts 2 (827627 or 827600)
Academy course enrollment must be approved by the appropriate Academy.
Marshall HS Academy - transportation may be provided

The Pastry Arts curriculum 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. Specialization options will include Baking and Pastry Food-Preparation Techniques. 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. The co-curricular student organization, FCCLA, offers opportunities in leadership, community, and competitive events. **This course requires a student materials fee as listed in FCPS Notice 5922.**

Fashion Careers 1 (828027)
Grades: 11, 12 **Credit: two**
Prerequisite: Art 1 (912000), Fashion Marketing (814000), or Introduction to Interior Design (825432). A performance review may be required.
Academy course enrollment must be approved by the appropriate Academy.
Fairfax HS Academy - transportation may be provided

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. Teachers emphasize skills in art, communication, mathematics, science and technology in this course. (Students interested in this course should also see Fashion Marketing 1 under Marketing.) The co-curricular student organization, FCCLA, offers opportunities in leadership, community, and competitive events. **This course requires a student materials fee as listed in FCPS Notice 5922.**

Fashion Careers 2 (828127)
Grades: 12 **Credit: two**
Prerequisite: Fashion Careers 1 (828027) or Portfolio Review (examples of student work) and/or a performance review may be required.
Academy course enrollment must be approved by the appropriate Academy.
Fairfax HS Academy - transportation may be provided

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. (Students interested in this course should also see Fashion Marketing 1 under Marketing.) The co-curricular student organization, FCCLA, offers opportunities in leadership, community, and competitive events. **This course requires a student materials fee as listed in FCPS Notice 5922.**

CTE HEALTH & MEDICAL SCIENCES

Explore Health Sci (830226)
Grades: 10, 11, 12 **Credit: one**
Academy course enrollment must be approved by the appropriate Academy.
Falls Church HS Academy - transportation may be provided

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 (838325)
Grades: 10, 11, 12 **Credit: one**
Academy course enrollment must be approved by the appropriate Academy. - Every other day, all year.
Falls Church HS Academy - transportation may be provided

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 (838326)
Grades: 10, 11, 12 **Credit: one**
Prerequisite: Exploring Health Sciences (830226)
Academy course enrollment must be approved by the appropriate Academy.
Falls Church HS Academy - transportation may be provided

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 MedcneDE (8383DE)
Grades: 10, 11, 12 **Credit: one / weighted +1.0**
Prerequisite: Exploring Health Sciences (830226)
Academy course enrollment must be approved by the appropriate Academy.
Falls Church HS Academy - transportation may be provided

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 (838399)
Grades: 9, 10, 11, 12 **Credit: one**
Online Campus course enrollment must be approved by the Online Campus.

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 MedcneDE (8383D9)
Grades: 9, 10, 11, 12 **Credit: one / weighted +1.0**
Online Campus course enrollment must be approved by the Online Campus.

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. Please note that the Dual Enrollment option for this course carries an additional weight of 1.0. NOVA DE – Aligns with HLT 141 (1 credit course) Only transfers to NOVA, not other colleges.

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 Foundation (834460)
Grades: 11, 12 **Credit: one / weighted +0.5**
Academy course enrollment must be approved by the appropriate Academy.
Falls Church HS Academy - transportation may be provided

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 (833827)**Grades: 10, 11, 12****Credit: two****Academy course enrollment must be approved by the appropriate Academy.
Falls Church HS Academy - transportation may be provided**

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 (833897)**Grades: 9, 10, 11, 12****Credit: two****Online Campus course enrollment must be approved by the Online Campus.**

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.

Med Code/Bill 1 (838826)**Grades: 10, 11, 12****Credit: one****Academy course enrollment must be approved by the appropriate Academy.
Falls Church HS Academy - transportation may be provided**

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 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.**

Med Code/Bill 2 (838926)**Grades: 10, 11, 12****Credit: one****Prerequisite: Students must also register for part one, Medical Billing/Coding I for the fall semester.****Academy course enrollment must be approved by the appropriate Academy.
Falls Church HS Academy - transportation may be provided**

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 (834526)**Grades: 11, 12****Credit: one****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.****Academy course enrollment must be approved by the appropriate Academy.
Falls Church HS Academy - transportation may be provided**

This is part one (fall semester) of a two-part, full-year course. Students must also register for Medical Assistant 2 (834626) for the spring semester. 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 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.**

Medical Assistant 2 (834626)**Grades: 11, 12****Credit: one****Prerequisite: Medical Assistant 1 (834526)****Academy course enrollment must be approved by the appropriate Academy.
Falls Church HS Academy - transportation may be provided**

This is part two (spring semester) of a two-part, full-year course. Students must also register for part one, Medical Assistant 1 (834526) for the fall semester. 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 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.**

Intro to Nursing 1 (835526)**Grades: 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.****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.****Falls Church HS Academy at Plum Center - transportation may be provided**

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. Students must purchase liability insurance and meet current health agency requirements to participate in required clinical experiences in Intro to Nursing 2. 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.**

Intro to Nursing 2 (835626)**Grades: 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.****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.****Falls Church HS Academy at Plum Center - transportation may be provided**

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. A mandatory 40 hour clinical is required outside of school hours, transportation is not provided. 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. Students must purchase uniforms and liability insurance 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. **This course requires a student materials fee as listed in FCPS Notice 5922.**

Patient Care Tech (830327)**Grades: 12****Credit: two****Prerequisite: Certified Nursing Assistant certification available through****Introduction to Nursing 1 and 2.****Academy course enrollment must be approved by the appropriate Academy.****Falls Church HS Academy at Plum Center - transportation may be provided**

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 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 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 (835728)**Grades: 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.****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.****Falls Church HS Academy at Plum Center - transportation may be provided**

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. Students must purchase uniforms and liability insurance 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. **This course requires a student materials fee as listed in FCPS Notice 5922.**

Practical Nursing 2 (835829)**Grades: 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.****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.****Falls Church HS Academy at Plum Center - transportation may be provided**

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. Students must purchase uniforms and liability insurance 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. **This course requires a student materials fee as listed in FCPS Notice 5922.**

Phys/Occ Therapy 1 (836527)**Grades: 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.****Academy course enrollment must be approved by the appropriate Academy.****West Potomac HS Academy - transportation may be provided**

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/OccTherapy 1 DE (8365DE)**Grades: 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.****Academy course enrollment must be approved by the appropriate Academy. West Potomac HS Academy - transportation may be provided**

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 (836627)**Grades: 11, 12****Credit: two****Prerequisite: Physical Therapy/Occupational Therapy 1 (836527)****Academy course enrollment must be approved by the appropriate Academy. West Potomac HS Academy - transportation may be provided**

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 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.**

Dental Careers 1 (832827)**Grades: 11, 12****Credit: two****Prerequisite: Exploring the Language of Medicine (838326, 838399 or 8383D9) is recommended but not required.****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. Falls Church HS Academy - transportation may be provided**

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 must purchase liability insurance and 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 (832927)**Grades: 12****Credit: two****Prerequisite: Dental Careers 1 (832827)****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.****Falls Church HS Academy - transportation may be provided**

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 purchase liability insurance and meet current dental health agency requirements to participate in clinical experiences. 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.**

Pharmacy Tech 1 (830527)**Grades: 11, 12****Credit: one****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.****Falls Church HS Academy - transportation may be provided**

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 purchase liability insurance and 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 (830627)**Grades: 11, 12****Credit: two****Academy course enrollment must be approved by the appropriate Academy. - Grade 11 - *Must be within 60 days of graduation to sit for the Exam for the Certification of Pharmacy Technician****Falls Church HS Academy - transportation may be provided**

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. 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 and grant supporting the HMS 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 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 requires a student materials fee as listed in FCPS Notice 5922.**

Veterinary Science 1 (808827)**Grades: 10, 11, 12****Credit: two****Academy course enrollment must be approved by the appropriate Academy. Edison HS Academy - transportation may be provided**

Students interested in studying animals and desiring experience in the care of a variety of animals will benefit from this course. The course is designed for students interested in a career in the animal health care field. Core curriculum includes animal anatomy, 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. **This course requires a student materials fee as listed in FCPS Notice 5922.**

Veterinary Science 2 (808927)**Grades: 11, 12****Credit: two****Prerequisite: Veterinary Science 1 (808827)****Academy course enrollment must be approved by the appropriate Academy. Edison HS Academy - transportation may be provided**

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

911 Dispatch (833726)**Grades: 10, 11, 12****Credit: one****Academy course enrollment must be approved by the appropriate Academy. West Potomac HS Academy - transportation may be provided**

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 (833326)**Grades: 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.****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). West Potomac HS Academy - transportation may be provided**

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 (833426)**Grades: 11, 12****Credit: one****Prerequisite: Emergency Medical Technician 1 (833326). Students must be 16 years old prior to the first day of instruction.****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.****Falls Church HS Academy - transportation may be provided**

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 (870527)**Grades: 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.****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.****Chantilly HS Academy at Fairfax County Fire Training - transportation may be provided**

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 (870627)**Grades: 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.****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.****Chantilly HS Academy at Fairfax County Fire Training - transportation may be provided**

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) Grades: 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) Grades: 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) Grades: 11, 12

Credit: one

Prerequisite: Marketing 1 (812000), Fashion Marketing 1 (814000), Sports and Entertainment Marketing (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 and organizations.

Fashion Marketing 2 (814523) Grades: 11, 12

Credit: one

Prerequisite: Marketing 1 (812000) or Fashion Marketing 1 (814000)
Academy course enrollment must be approved by the appropriate Academy.
Chantilly HS Academy at Fair Oaks - transportation may be provided

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 Mkg (817500) Grades: 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 Mgmt (817700) Grades: 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 Mgmt (813223) Grades: 11, 12

Credit: one

Academy course enrollment must be approved by the appropriate Academy.
Chantilly HS Academy at Fair Oaks - transportation may be provided

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 Mkt (812526) Grades: 10, 11, 12

Credit: one

Academy course enrollment must be approved by the appropriate Academy.
Fairfax HS Academy - transportation may be provided

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 (909300) Grades: 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) 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 1DE (9093DE)**Grades:** 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) 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 (909400)**Grades:** 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) 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 2DE (9094DE)**Grades:** 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) 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)**Grades:** 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 (845060)**Grades:** 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 Adv Engr (845360)**Grades:** 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 (842525)**Grades:** 11, 12**Credit:** one / weighted +0.5

Prerequisite: STEM Engineering (845060) recommended or teacher approval
Academy course enrollment must be approved by the appropriate Academy.
Marshall HS Academy - transportation may be provided

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 (842626)**Grades:** 11, 12**Credit:** one / weighted +0.5

Prerequisite: Engineering Systems 1 (842525)
Academy course enrollment must be approved by the appropriate Academy.
Marshall HS Academy - transportation may be provided

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 (854725)**Grades:** 10, 11, 12**Credit:** one / weighted +0.5

Prerequisite: STEM Engineering (845060) recommended or teacher approval
Academy course enrollment must be approved by the appropriate Academy.
Marshall HS Academy - transportation may be provided

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 are double-blocked into semester 1 and 2 courses, which make up a CTE completer. Students are expected to complete both courses in one year. **This course requires a student materials fee as listed in FCPS Notice 5922.**

CTE TRADE AND INDUSTRIAL

Robotic Systems 2 (855825)

Grades: 10, 11, 12

Credit: one / weighted +0.5

Prerequisite: Robotic Systems 1 (854725)

Academy course enrollment must be approved by the appropriate Academy.
Marshall HS Academy - transportation may be provided

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 are double-blocked into semester 1 and 2 courses, which make up a CTE completer. Students are expected to complete both courses in one year. **This course requires a student materials fee as listed in FCPS Notice 5922.**

Intro Tech Drawing (843599)

Grades: 9, 10, 11, 12

Credit: one

Prerequisite: STEM Design (840300) recommended or teacher approval

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

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

Engineering Drawing (843699)

Grades: 10, 11, 12

Credit: one

Prerequisite: STEM Design (843500) or Introduction to Technical Drawing (843599)

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

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. 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.**

Architect Drawing (843799)

Grades: 10, 11, 12

Credit: one

Prerequisite: STEM Design (843500) or Introduction to Technical Drawing (843599)

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

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. 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.**

Advanced Drawing (843899)

Grades: 11, 12

Credit: one

Prerequisite: Engineering Drawing (843600 or 843699) or Architectural Drawing (843700 or 843799)

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

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. 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.**

Apprenticeship (984126)

Grades: 10, 11, 12

Credit: one

Academy course enrollment must be approved by the appropriate Academy.

Edison HS Academy, Marshall HS Academy - transportation may be provided

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 site. Students should achieve a minimum of 280 hours for the school year (70 hours per quarter).

Auto Collision Svc 1 (867626)

Grades: 10, 11, 12

Credit: one

Academy course enrollment must be approved by the appropriate Academy.

Edison HS Academy - transportation may be provided

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 (867727)

Grades: 11, 12

Credit: two

Prerequisite: Auto Collision Service 1 (867626)

Academy course enrollment must be approved by the appropriate Academy.

Edison HS Academy - transportation may be provided

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 (867827)

Grades: 12

Credit: two

Prerequisite: Automotive Collision Service 2 (867727)

Academy course enrollment must be approved by the appropriate Academy.

Edison HS Academy - transportation may be provided

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 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 Technology 1 (850626)

Grades: 10, 11

Credit: one

Academy course enrollment must be approved by the appropriate Academy.

Marshall HS Academy - transportation may be provided

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. 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 (850727)**Grades: 11, 12****Credit: two****Prerequisite: Automotive Technology 1 (850626)****Academy course enrollment must be approved by the appropriate Academy. Marshall HS Academy - transportation may be provided**

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, 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 3 (850827)**Grades: 12****Credit: two****Prerequisite: Automotive Technology 2 (850727)****Academy course enrollment must be approved by the appropriate Academy. Marshall HS Academy - transportation may be provided**

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. 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.**

Carpentry 1 (860126)**Grades: 10, 11, 12****Credit: one****Academy course enrollment must be approved by the appropriate Academy. Chantilly HS Academy - transportation may be provided**

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 (860227)**Grades: 11, 12****Credit: two****Prerequisite: Carpentry 1 (860126)****Academy course enrollment must be approved by the appropriate Academy. Chantilly HS Academy - transportation may be provided**

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. 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.**

Carpentry 3 (860327)**Grades: 12****Credit: two****Prerequisite: Carpentry 2 (860227)****Academy course enrollment must be approved by the appropriate Academy. Chantilly HS Academy - transportation may be provided**

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. 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 (860125)**Grades: 10, 11, 12****Credit: two****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. Edison HS Academy at Spring Village - transportation may be provided**

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

Construction Tech 1 (860129)**Grades: 10, 11, 12****Credit: one****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. Edison HS Academy at Spring Village - transportation may be provided**

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

Construction Tech 2 (860225)**Grades: 11, 12****Credit: two****Prerequisite: Construction Technologies 1 (860126)****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. Edison HS Academy at Spring Village - transportation may be provided**

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

Cosmetology 1 (874528)**Grades: 10, 11, 12****Credit: three****Academy course enrollment must be approved by the appropriate Academy. Marshall HS Academy - transportation may be provided**

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 (874628)**Grades: 11, 12****Credit: three****Prerequisite: Cosmetology 1 (852727)****Academy course enrollment must be approved by the appropriate Academy.
Marshall HS Academy - transportation may be provided**

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

Criminal Justice 1 (870226)**Grades: 10, 11, 12****Credit: one****Academy course enrollment must be approved by the appropriate Academy.
Marshall HS Academy - transportation may be provided**

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 (870327)**Grades: 11, 12****Credit: two****Prerequisite: Criminal Justice 1 (870226)****Academy course enrollment must be approved by the appropriate Academy.
Marshall HS Academy - transportation may be provided**

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 (853326)**Grades: 10, 11, 12****Credit: one****Academy course enrollment must be approved by the appropriate Academy.
Edison HS Academy - transportation may be provided**

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 (853427)**Grades: 11, 12****Credit: two****Prerequisite: Electrical Construction and Engineering 1 (853326)****Academy course enrollment must be approved by the appropriate Academy.
Edison HS Academy - transportation may be provided**

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 (853527)**Grades: 12****Credit: two****Prerequisite: Electrical Construction and Engineering 2 (853427)****Academy course enrollment must be approved by the appropriate Academy.
Edison HS Academy - transportation may be provided**

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. 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 1 (850326)**Grades: 10, 11, 12****Credit: one****Academy course enrollment must be approved by the appropriate Academy.
Edison HS Academy - transportation may be provided**

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 1 DE (8503DE)**Grades: 10, 11, 12****Credit: one / weighted +1.0****Academy course enrollment must be approved by the appropriate Academy.
Edison HS Academy - transportation may be provided**

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 2 (850427)**Grades: 11, 12****Credit: two****Prerequisite: Heating, Ventilation, Air Conditioning, and Refrigeration I (850326)****Academy course enrollment must be approved by the appropriate Academy.****Edison HS Academy - transportation may be provided**

Students continuing 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 (8504DE)**Grades: 11, 12****Credit: two / weighted +1.0****Prerequisite: Heating, Ventilation, Air Conditioning, and Refrigeration I (8503DE)****Academy course enrollment must be approved by the appropriate Academy.****Edison HS Academy - transportation may be provided**

Students continuing 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 (860726)**Grades: 11, 12****Credit: one****Academy course enrollment must be approved by the appropriate Academy.****Fairfax HS Academy - transportation may be provided**

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 (860827)**Grades: 11, 12****Credit: two****Prerequisite: Professional Photography Studio 1 (860726). Portfolio review may be required.****Academy course enrollment must be approved by the appropriate Academy.****Fairfax HS Academy - transportation may be provided**

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 Prod 1 (868826)**Grade: 10, 11, 12****Credit: one****Academy course enrollment must be approved by the appropriate Academy.****Fairfax HS Academy - transportation may be provided**

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 Prod 2 (868927)**Grades: 11, 12****Credit: two****Prerequisite: TV Media Prod 1 (868826)****Academy course enrollment must be approved by the appropriate Academy.****Fairfax HS Academy - transportation may be provided**

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 Prod 3 (869027)**Grades: 12****Credit: two****Prerequisite: TV Media Prod 2 (868927)****Academy course enrollment must be approved by the appropriate Academy.****Fairfax HS Academy - transportation may be provided**

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.**

ENGLISH**English 9 (113000)****Grades: 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. (This is a Standards of Learning aligned course, which is tested in 11th grade.)

English 9 (113099)**Grades: 9****Credit: one****Prerequisite: English 8****Online Campus course enrollment must be approved by the Online Campus.**

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. (This is a Standards of Learning aligned course, which is tested in 11th grade.)

English 9 (573090)**Grades: 9****Credit: one****Course Codes:•573990 (General)•573091-Level 1•573092-Level 2•573093-Level 3**

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. (This is a Standards of Learning aligned course, which is tested in 11th grade.)

English 9 HN (113036)**Grades: 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. (This is a Standards of Learning aligned course, which is tested in 11th grade.)

English 9 HN (113097)**Grades: 9****Credit: one / weighted +0.5****Prerequisite: English 8****Online Campus course enrollment must be approved by the Online Campus.**

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. (This is a Standards of Learning aligned course, which is tested in 11th grade.)

English 10 (114000)**Grades: 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. (This is a Standards of Learning aligned course, which is tested in 11th grade.)

English 10 (114099)**Grades: 10****Credit: one****Prerequisite: English 9****Online Campus course enrollment must be approved by the Online Campus.**

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. (This is a Standards of Learning aligned course, which is tested in 11th grade.)

English 10 (573190)**Grades: 10****Credit: one****Course Codes:•573190- General•573191-Level 1•573192-Level 2•573193-Level 3**

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. (This is a Standards of Learning aligned course, which is tested in 11th grade.)

English 10 HN (114036)**Grades: 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. (This is a Standards of Learning aligned course, which is tested in 11th grade.)

English 10 HN (114097)
Grades: 10 **Credit: one / weighted +0.5**
Prerequisite: English 9
Online Campus course enrollment must be approved by the Online Campus.

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. (This is a Standards of Learning aligned course, which is tested in 11th grade.)

English 11 (115099)
Grades: 11 **Credit: one**
Prerequisite: English 10
Online Campus course enrollment must be approved by the Online Campus.

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 (115097)
Grades: 11 **Credit: one / weighted +0.5**
Prerequisite: English 10
Online Campus course enrollment must be approved by the Online Campus.

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 DE (1150D9)
Grades: 11 **Credit: one / weighted +1.0**
Prerequisite: English 10
Online Campus course enrollment must be approved by the Online Campus.

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's admission criteria.

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 English Lan/Com (119693)
Grades: 12 **Credit: one / weighted +1.0**
Prerequisite: English 11
Online Campus course enrollment must be approved by the Online Campus.

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 Lan/Com (119695)
Grades: 11 **Credit: one / weighted +1.0**
Prerequisite: English 10
Online Campus course enrollment must be approved by the Online Campus.

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 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). 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 1 (115008)
Grades: 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. IB English Literature I SL, together with IB English Literature II SL, prepares students for the standard level IB exam. Completion of this course fulfills the English 11 course requirement.

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). 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 1 (115017)
Grades: 12 **Credit: one / weighted +1.0**
Prerequisite: English 10
Semester 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 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). 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.

Justice HS Only: This semester course available to qualified seniors

IB Lang & Lit SL 1 (115018)**Grades: 11****Prerequisite: English 10****Credit: one / weighted +1.0**

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 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). 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.

Justice HS Only: All students needing English 11 must choose between IB Lang & Lit SL 1 or HL 1

IB English Lit HL 1 (115009)**Grades: 11****Prerequisite: English 10****Credit: one / weighted +1.0**

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. IB English Literature I HL, together with IB English Literature II HL, prepares students for the higher level IB exam. Completion of this course fulfills the English 11 course requirement.

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). 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 1 (115019)**Grades: 11****Prerequisite: English 10****Credit: one / weighted +1.0**

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 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). 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.

English 12 (116099)**Grades: 12****Prerequisite: English 11****Credit: one****Online Campus course enrollment must be approved by the Online Campus.**

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 (116097)**Grades: 12****Online Campus course enrollment must be approved by the Online Campus.****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 DE (1160DE)**Grades: 12****Prerequisite: English 11****Credit: one / weighted +1.0**

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's admission criteria. For more information about dual enrollment courses, visit <https://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.

English 12 DE (1160D8)**Grades: 12****Prerequisite: English 11 DE****Online Campus course enrollment must be approved by the Online Campus.****Credit: one / weighted +1.0**

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. Prerequisite: English 11 DE or successful completion of ENG 111/112.

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.

English 12 DE (1160D9)**Grades: 12****Prerequisite: English 11****Online Campus course enrollment must be approved by the Online Campus.****Credit: one / weighted +1.0**

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's admission criteria.

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 English Lit/Com (119593)
Grades: 12 **Credit: one / weighted +1.0**
Prerequisite: English 11
Online Campus course enrollment must be approved by the Online Campus.

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 Eng Lit SL 2 (116008)
Grades: 12 **Credit: one / weighted +1.0**
Prerequisite: IB English Literature SL 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 Eng Lit HL 2 (116009)
Grades: 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)
Grades: 11, 12 **Credit: one / weighted +1.0**
Prerequisite: IB Language and Literature SL 1 (Semester Block)
Semester Block

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.

Justice HS Only: This semester course available to qualified seniors

IB Lang & Lit SL 2 (116018)
Grades: 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.

Justice HS Only: All students needing English 12 will select this course

Creative Writing 1 (117100)
Grades: 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 (117198)
Grades: 9, 10, 11, 12 **Credit: one-half**
Online Campus course enrollment must be approved by the Online Campus.

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)
Grades: 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 (117298)
Grades: 10, 11, 12 **Credit: one-half**
Prerequisite: Creative Writing 1
Online Campus course enrollment must be approved by the Online Campus.

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)
Grades: 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 (117398)
Grades: 10, 11, 12 **Credit: one-half**
Prerequisite: Creative Writing 2
Online Campus course enrollment must be approved by the Online Campus.

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 (117498)
Grades: 12 **Credit: one-half**
Online Campus course enrollment must be approved by the Online Campus.

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 (144699)
Grades: 9, 10, 11, 12 **Credit: one**
Online Campus course enrollment must be approved by the Online Campus.

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)
Grades: 11 **Credit: one / weighted +1.0**

This is the first year of a two-year course that involves the study of international film texts, film theory, and practical exercises in filmmaking and analysis. At the core of the IB film course lies a concern with clarity of understanding, critical thinking, reflective analysis, effective involvement, and imaginative synthesis that is achieved through the practical engagement of film. Students create film projects as well as analyze film in writing and oral presentations. IB Film Study I SL, together with IB Film Study II SL, prepares students for the standard level IB 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 Film Study HL 1 (144609)**Grades: 11****Credit: one / weighted +1.0**

This is the first year of a two-year course that involves the study of international film texts, film theory, and practical exercises in filmmaking and analysis. At the core of the IB film course lies a concern with clarity of understanding, critical thinking, reflective analysis, effective involvement, and imaginative synthesis that is achieved through the practical engagement of film. Students create film projects as well as analyze film in writing and oral presentations. HL students expand their understanding through extended film analysis as well as more extensive and a wider variety of film projects. IB Film Study I HL, together with IB Film Study II HL, prepares students for the higher level IB 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 Film Study SL 2 (144658)**Grades: 12****Credit: one / weighted +1.0****Prerequisite: IB Film Study I**

This is the second year of a two-year course that involves the study of international film texts, film theory, and practical exercises in filmmaking and analysis. The course is available to students who have completed the first year of IB Film Study and wish to continue to pursue a rigorous study of film production. At the core of the IB film course lies a concern with clarity of understanding, critical thinking, reflective analysis, effective involvement, and imaginative synthesis that is achieved through the practical engagement of film. Students create film projects as well as analyze film in writing and oral presentations. Students will study at least two films from more than one country and create and produce an original film as part of a team or as an individual. By the end of the second year of IB Film Study SL, students will have created an annotated list of sources for documentaries, presented an oral detailed textual analysis of a film scene, and completed a film 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.

IB Film Study HL 2 (144659)**Grades: 12****Credit: one / weighted +1.0****Prerequisite: IB Film Study I**

This is the second year of a two-year course that involves the study of international film texts, film theory, and practical exercises in filmmaking and analysis. The course is available to students who have completed the first year of IB Film Study and wish to continue to pursue a rigorous study of film production. At the core of the IB film course lies a concern with clarity of understanding, critical thinking, reflective analysis, effective involvement, and imaginative synthesis that is achieved through the practical engagement of film. Students create film projects as well as analyze film in writing and oral presentations. Students will study at least four films from more than one country. By the end of the second year of IB Film Study HL, students will have created an extended annotated list of sources for documentaries, presented an oral detailed textual analysis of a film scene, and completed a film project and associated trailer.

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)**Grades: 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.

Justice HS: Students enrolled in this course will participate in "The Verdict" – Justice's newspaper

Journalism 2 (121000)**Grades: 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.

Justice HS: Students enrolled in this course will participate in "The Verdict" – Justice's newspaper

Journalism 3 (121100)**Grades: 11, 12****Credit: one****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.

Justice HS: Students enrolled in this course will participate in "The Verdict" – Justice's newspaper

Journalism 4 (121200)**Grades: 12****Credit: one****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.

Justice HS: Students enrolled in this course will participate in "The Verdict" – Justice's newspaper

LGBTQ+ Perspect Lit (116700)**Grades: 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)**Grades: 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.

Justice HS: Students enrolled in this course will participate in publication of Justice's yearbook

Photo Journalism 2 (121600)**Grades: 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.

Justice HS: Students enrolled in this course will participate in publication of Justice's yearbook

Photo Journalism 3 (121700)**Grades: 11, 12****Credit: one****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.

Justice HS: Students enrolled in this course will participate in publication of Justice's yearbook

Photo Journalism 4 (121714)**Grades: 12****Credit: one****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.

Justice HS: Students enrolled in this course will participate in publication of Justice's yearbook

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES

Entering ELD 1 (572010)

Grades: 9, 10, 11, 12

Credit: one

•572010-General•572011-(Opt. Grade 9)•572012-(Opt. Grade 10)•572013-(Opt. Grade 11)

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.

Emerging ELD 2 (572050)

Grades: 9, 10, 11, 12

Credit: one

•572050-General•572051-(Opt. Grade 9)•572052- (Opt. Grade 10)•572053-(Opt. Grade 11)

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.

Developing ELD 3 (572090)

Grades: 9, 10, 11, 12

Credit: one

•572090-General•572091-(Opt. Grade 9)•572092-(Opt. Grade 10)•572093-ELD for English 11 (Pair with 115090)

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).

Expanding ELD 4 (573000)

Grades: 9, 10, 11

Credit: one

•573000-General•573011-(Opt. Grade 9)•573012-(Opt. Grade 10)•573013-ELD for English 11 (Pair with 115094)

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 (573090)

Grades: 9

Credit: one

Course Codes:•573990 (General)•573091-Level 1•573092-Level 2•573093-Level 3

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. (This is a Standards of Learning aligned course, which is tested in 11th grade.)

English 10 (573190)

Grades: 10

Credit: one

Course Codes:•573190- General•573191-Level 1•573192-Level 2•573193-Level 3

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. (This is a Standards of Learning aligned course, which is tested in 11th grade.)

Bridging to Literacy (571012)

Grades: 9, 10, 11

Credit: non-credit

Corequisite: Must sign up for 571013

This course is designed to provide direct, explicit and intensive reading instruction to English Learners with an English Language Proficiency (ELP) level 1 who have significant gaps in their home language instruction and literacy. This course is designed for students with a home language of Spanish to bridge between Spanish and English literacy skills.. Due to the targeted and foundational nature of the reading course, student placement in this course is dependent upon assessment outcomes as well as information gathered and reviewed through a SLIFE Consultation. Students placed in this course may defer enrollment in English 9 for ELs 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 needs.

Literacy Foundations (118090)

Grades: 9, 10, 11

Credit: one

Corequisite: must also sign up for 118094

This course is designed to provide direct, explicit and intensive reading instruction to English Learners with an English Language Proficiency (ELP) level 1 who have significant gaps in their home language instruction and literacy. With the goal to equip students for success in core classes, instruction will focus on the essential components of reading which include phonemic awareness, phonics, reading fluency (including oral skills), vocabulary development and reading comprehension strategies through engaging student centered learning. Due to the targeted and foundational nature of the reading course, student placement in this course is dependent upon assessment outcomes as well as information gathered and reviewed through a SLIFE Consultation. Students placed in this course may defer enrollment in English 9 for ELs 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 needs.

Math Readiness EL (312192)

Grades: 9, 10, 11

Credit: one

Course Codes:•312192 (SX)•312198 (S2)

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 I. 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)

Grades: 9, 10

Credit: one

Course Codes:•312196 (SX)•312199 (S1)

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)**Grades: 9, 10, 11****Course Codes: 312190 (YR) 312193 (SX)****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)**Grades: 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)**Grades: 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)**Grades: 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. Students who successfully complete the course will earn an elective credit. Students successfully completing two years of this course will satisfy the sequential elective requirement for the Standard Diploma.

FINE ARTS

DANCE

Academy Dance 1 (931126)**Grades: 9, 10, 11, 12****Credit: one**

Academy course enrollment must be approved by the appropriate Academy. Fairfax HS Academy, West Potomac HS Academy - transportation may be provided

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 may be used to satisfy the graduation requirement for a credit in fine arts. This course may require a student materials fee as listed in FCPS Notice 5922. **This course requires a student materials fee as listed in FCPS Notice 5922.**

Academy Dance 2 (931326)**Grades: 10, 11, 12****Credit: one**

Prerequisite: Academy Dance 1. Audition required and/or recommendation of dance teacher.

Academy course enrollment must be approved by the appropriate Academy. Fairfax HS Academy, West Potomac HS Academy - transportation may be provided

Academy 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 may be used to satisfy the graduation requirement for a credit in fine arts. This course may require a student materials fee as listed in FCPS Notice 5922. **This course requires a student materials fee as listed in FCPS Notice 5922.**

Academy Dance 3 (931527)**Grades: 11, 12****Credit: two**

Prerequisite: Academy Dance 2. Audition required and/or recommendation of dance teacher.

Academy course enrollment must be approved by the appropriate Academy. West Potomac HS Academy, Fairfax HS Academy - transportation may be provided

Academy 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 may be used to satisfy the graduation requirement for a credit in fine arts. This course may require a student materials fee as listed in FCPS Notice 5922. **This course requires a student materials fee as listed in FCPS Notice 5922.**

Academy Dance 4 (931927)**Grades: 12****Credit: two**

Prerequisite: Academy Dance 3. Audition required and/or recommendation of dance teacher.

Academy course enrollment must be approved by the appropriate Academy. West Potomac HS Academy, Fairfax HS Academy - transportation may be provided

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 may be used to satisfy the graduation requirement for a credit in fine arts. This course may require a student materials fee as listed in FCPS Notice 5922. **This course requires a student materials fee as listed in FCPS Notice 5922.**

Broadway Dance (932126)**Grades: 9, 10, 11, 12****Credit: one****Prerequisite: None**

Academy course enrollment must be approved by the appropriate Academy. Fairfax HS Academy, West Potomac HS Academy - transportation may be provided

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 may be used to satisfy the graduation requirement for a credit in fine arts. This course may require a student materials fee as listed in FCPS Notice 5922. **This course requires a student materials fee as listed in FCPS Notice 5922.**

Hip Hop Dance (92326)

Grades: 9, 10, 11, 12

Credit: one

Prerequisite: None

Academy course enrollment must be approved by the appropriate Academy. Fairfax HS Academy, West Potomac HS Academy - transportation may be provided

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 may be used to satisfy the graduation requirement for a credit in fine arts. This course may require a student materials fee as listed in FCPS Notice 5922. **This course requires a student materials fee as listed in FCPS Notice 5922.**

FINE ARTS

MUSIC

Beginning Band (923215)*Concert Band*

Grades: 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.**

*Justice HS: Prereq = None***Band (923315)***Concert Band*

Grades: 9, 10, 11, 12

Credit: one

Prerequisite: Beginning Band or successful audition Level 1

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 (923415)*Symphonic Band*

Grades: 9, 10, 11, 12

Credit: one / weighted +0.5

Prerequisite: Successful audition Level 1

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 (923416)*Wind Ensemble*

Grades: 9, 10, 11, 12

Credit: one / weighted +0.5

Prerequisite: Successful audition Level 2

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.**

Orchestra (923815)*Concert Orchestra*

Grades: 9, 10, 11, 12

Credit: one

Prerequisite: Beginning Orchestra or successful audition Level 1

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 (923915)*Symphonic Orchestra*

Grades: 9, 10, 11, 12

Credit: one / weighted +0.5

Prerequisite: Successful audition Level 1

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 (923916)*Chamber Orchestra*

Grades: 9, 10, 11, 12

Credit: one / weighted +0.5

Prerequisite: Successful audition Level 2

Advanced Orchestra students continue developing as individual musicians and as members of a musical group. Emphasis is placed on the development of advanced 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.**

Chorus (926017)

Grades: 9, 10, 11, 12

Credit: one

Prerequisite: Successful audition Level 1

Chorus students will continue to study correct vocal production, sight-singing and development of musicianship through the study of 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.**

Advanced Chorus (928915)*Select Vocal Ensemble*

Grades: 9, 10, 11, 12

Credit: one / weighted +0.5

Prerequisite: Successful audition Level 1

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.**

Beginning Chorus (926016)*Concert Choir*

Grades: 9, 10, 11, 12

Credit: one

Prerequisite: none Level 1

Beginning Chorus students develop skills as individual musicians and as members of a musical group. Emphasis is placed upon correct vocal performance techniques and sight-singing through the study of appropriate choral literature. Based on successful completion of sequential concepts for each level, students will continue to learn progressive 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.**

Chorus (928515)
Grades: 9, 10, 11, 12 **Credit: one**
Prerequisite: Beginning Chorus or successful audition

Chorus students will continue to study correct vocal production, sight-singing and development of musicianship through the study of 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.**

Music Sampler (921415)
Grades: 9, 10, 11, 12 **Credit: one**
Level 1

Music Sampler students are provided the opportunity to sample a variety of musical experiences in a non-performing music class. Course content may include guitar and class piano experience, as well as various modules designed to assist students in 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.**

Guitar Ensemble 1 (924518)
Grades: 9, 10, 11, 12 **Credit: one**
Prerequisite: Successful audition or permission of the instructor
Level 1

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 also participate in the guitar state concert assessment in the spring. 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)
Grades: 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 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)
Grades: 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 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)
Grades: 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 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.**

Music Comp Tech 1 (922527)
Grades: 11, 12 **Credit: two**
Prerequisite: Advanced Music Theory or a music theory background (Interview may be required with the instructor.)
Academy course enrollment must be approved by the appropriate Academy.
Fairfax HS Academy - transportation may be provided

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 (922627)
Grades: 12 **Credit: two**
Prerequisite: Music Computer Technology 1
Academy course enrollment must be approved by the appropriate Academy.
Fairfax HS Academy - transportation may be provided

Music Computer Technology 2 students will expand on the use of computers and other electronic technologies developed in Music Computer Technology 1 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)
Grades: 9, 10, 11, 12 **Credit: one**
Prerequisite: None

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 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.**

Theatre Arts 2 (142000)
Grades: 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 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.**

Theatre Arts 3 (143000)
Grades: 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 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.**

Theatre Arts 4 (144000)
Grades: 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 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.**

Technical Theatre 1 (143511)**Grades: 9, 10, 11, 12****Prerequisite: None****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 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.**

Technical Theatre 2 (143512)**Grades: 10, 11, 12****Prerequisite: Technical Theatre 1 and/or recommendation of theatre arts teacher.****Credit: one**

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 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.**

Technical Theatre 3 (143513)**Grades: 11, 12****Prerequisite: Technical Theatre 2 and/or recommendation of theatre arts teacher.****Credit: one / weighted +0.5**

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 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.**

Technical Theatre 4 (143514)**Grades: 12****Prerequisite: Technical Theatre 3 and/or recommendation of theatre arts teacher.****Credit: one / weighted +0.5**

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 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.**

IB Theatre Arts SL 1 (143008)**Grades: 11****Prerequisite: Theatre Arts 1 and 2 strongly recommended and/or recommendation of the theatre arts teacher.****Credit: one / weighted +1.0**

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. This course may be used to satisfy the graduation requirement for a credit in fine arts.

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)**Grades: 11****Prerequisite: Theatre Arts 1 and 2 strongly recommended and/or recommendation of the theatre arts teacher.****Credit: one / weighted +1.0**

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. This course may be used to satisfy the graduation requirement for a credit in fine arts.

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)**Grades: 12****Prerequisite: IB Theatre Arts SL 1****Credit: one / weighted +1.0**

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. This course may be used to satisfy the graduation requirement for a credit in fine arts.

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)**Grades: 12****Prerequisite: IB Theatre Arts HL 1****Credit: one / weighted +1.0**

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 (141026)**Grades: 9, 10, 11, 12****Prerequisite: Audition recommended, Interview required. Academy course enrollment must be approved by the appropriate Academy. Fairfax HS Academy - transportation may be provided****Credit: one**

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 (143026)**Grades: 10, 11, 12****Credit: one****Prerequisite: Musical Theatre Fundamentals. Audition recommended, interview required.****Academy course enrollment must be approved by the appropriate Academy. Fairfax HS Academy - transportation may be provided**

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 Mus Thtre Wkshp (143027)**Grades: 11, 12****Credit: two****Prerequisite: Musical Theatre Workshop. Audition required.****Academy course enrollment must be approved by the appropriate Academy. Fairfax HS Academy - transportation may be provided**

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 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.**

PreProf Mus Thtre (145027)**Grades: 12****Credit: two****Prerequisite: Advanced Musical Theatre Workshop. Audition required.****Academy course enrollment must be approved by the appropriate Academy. Fairfax HS Academy - transportation may be provided**

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 (144026)**Grades: 10, 11, 12****Credit: one****Prerequisite: Audition recommended, interview required.****Academy course enrollment must be approved by the appropriate Academy. Fairfax HS Academy - transportation may be provided**

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 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 Acting Methods (144027)**Grades: 11, 12****Credit: two****Prerequisite: Acting Methods. Audition required.****Academy course enrollment must be approved by the appropriate Academy. Fairfax HS Academy - transportation may be provided**

Advanced Acting Methods is a course where students will enhance performance techniques specific to acting for stage and film including actor preparation, methods, characterization, vocal production, movement, and theatre vocabulary. Students will examine and appraise 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 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.**

AdvStud TheatreTopic (142627)**Grades: 11, 12****Credit: two****Prerequisite: Academy course or teacher recommendation****Academy course enrollment must be approved by the appropriate Academy. Fairfax HS Academy - transportation may be provided**

Students will expand their industry knowledge through independent study and exploration of special topics in theatre and the performing arts. Students will examine the structures and roles in place for professional arts organizations and explore areas of selected interest which may include: Arts Administration, Theatre Management & Operations, Artistic Leadership, Theatre Education, Programming & Community Outreach, and Advanced Artistry. Field experience hours [internship opportunities with a local theatre organization] will be required. Students will develop and present a professional portfolio as a demonstration of accrued knowledge and skills. **This course requires a student materials fee as listed in FCPS Notice 5922.**

FINE ARTS**VISUAL ARTS****Studio Art & Des 1 (912000)****Grades: 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 & Des 2 (913000)**Grades: 10, 11, 12****Credit: one****Prerequisite: Studio Art & Design 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 & Des 3 (914000)**Grades: 11, 12****Credit: one****Prerequisite: Studio Art & Design 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 & Des 4 (914700)**Grades: 12****Credit: one****Prerequisite: Studio Art & Design 3**

Studio Art & Design 4 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)**Grades: 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)
Grades: 10, 11, 12
Prerequisite: Photography 1

Credit: one

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)
Grades: 11, 12
Prerequisite: Photography 2

Credit: one

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)
Grades: 12
Prerequisite: Photography 3

Credit: one

Photography 4 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)
Grades: 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)
Grades: 10, 11, 12
Prerequisite: Digital Art 1

Credit: one

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)
Grades: 11, 12
Prerequisite: Digital Art 2 or Animation

Credit: one

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)
Grades: 12
Prerequisite: Digital Art 3

Credit: one

Digital Art 4 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.**

Ceramics 1 3D Art (917560)
Grades: 9, 10, 11, 12

Credit: one

Ceramics 1 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.**

Ceramics 2 3D Art (917660)
Grades: 10, 11, 12

Credit: one

Prerequisite: Ceramics 1 (3D Studio Art)

Ceramics 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.**

Ceramics 3 3D Art (919713)
Grades: 11, 12

Credit: one

Prerequisite: Ceramics 2 (3D Studio Art)

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.**

Ceramics 4 3D Art (919714)
Grades: 12

Credit: one

Prerequisite: Ceramics 3 (3D Studio Art)

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.**

Jewelry 1 3D Art (919751)
Grades: 9, 10, 11, 12

Credit: one

Jewelry 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.**

Jewelry 2 3D Art (919752)
Grades: 10, 11, 12

Credit: one

Prerequisite: Jewelry 1 (3D Studio Art)

Jewelry 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.**

Jewelry 3D Art (919765-S1/919766-S2)

Grades: 11, 12

Prerequisite: Jewelry 2 (3D Studio Art)

Credit: one

Jewelry 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.**

*Justice HS: Students must sign up for both course codes***IB Visual Arts SL 1 (914908)**

Grades: 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. IB Visual Arts SL I, together with IB Visual Arts SL II, prepares students for the standard level IB 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. This course requires a student materials fee as listed in FCPS Notice 5922.

IB Visual Arts HL1 (914909)

Grades: 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 the highly motivated visual arts student with imaginative and creative abilities, who may wish to pursue the visual arts at the university or college level. IB Visual Arts HL I, together with IB Visual Arts HL II, prepares students for the higher level IB 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. This course requires a student materials fee as listed in FCPS Notice 5922.

IB Visual Arts SL 2 (915108)

Grades: 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)

Grades: 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 the highly motivated visual arts student with imaginative and creative abilities, 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)**

Grades: 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.

*Justice HS: Approval required***Ath & Sports Ldsp 2 (980855)**

Grades: 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.

*Justice HS: Approval required***Ath & Sports Ldsp 3 (980856)**

Grades: 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.

*Justice HS: Approval required***Ath & Sports Ldsp 4 (980857)**

Grades: 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.

*Justice HS: Approval required***AVID 9 (982809)**

Grades: 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)

Grades: 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)
Grades: 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)

Grades: 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.

Internship (984299)

Grades: 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.

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

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.

Computer Tech Assist (980818)

Grades: 11, 12

Credit: one

Prerequisite: Successful completion of an introductory computer course or approval of course instructor. Technical Assistant Application. Personal Traits and Occupational Skills Rating by each current teacher.

Computer Technology Assistance is an elective course open to students who have a fundamental level of computer hardware and software knowledge. Students will learn advanced level concepts of computer architecture, computer operating systems, network concepts, software maintenance, and advanced computer troubleshooting techniques as they apply their knowledge to the maintenance and support of computers within the school. Students will maintain a weekly journal of their learning experiences that will serve as documentation for potential employment opportunities.

Justice HS: Approval required

Internship (984200)

Grades: 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.

Internship (984226)

Grades: 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). Academy course enrollment must be approved by the appropriate Academy. West Potomac HS Academy, Chantilly HS Academy, Edison HS Academy, Fairfax HS Academy, Marshall HS Academy - transportation may be provided

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 (791311)

Grades: 9, 10, 11, 12

Credit: one

Academy course enrollment must be approved by the appropriate Academy. - Aerospace Science 1/Leadership Education 1
Chantilly HS Academy - transportation may be 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 (791611)

Grades: 10, 11, 12

Credit: one

Prerequisite: AFJROTC 1
Academy course enrollment must be approved by the appropriate Academy. - Aerospace Science 2/Leadership Education 2
Chantilly HS Academy - transportation may be 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 the 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 (791811)**Grades: 11, 12****Credit: one****Prerequisite: Air Force JROTC 2****Academy course enrollment must be approved by the appropriate Academy. -****Aerospace Science 3/Leadership Education 3****Chantilly HS Academy - transportation may be 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 (791911)**Grades: 12****Credit: one****Prerequisite: Air Force JROTC 3****Academy course enrollment must be approved by the appropriate Academy. -****Aerospace Science 4/Leadership Education 4****Chantilly HS Academy - transportation may be 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 (791325)**Grades: 9, 10, 11, 12****Credit: one****Academy course enrollment must be approved by the appropriate Academy. -****Leadership Education and Training 1 (LET 1)****West Potomac HS Academy - transportation may be provided**

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 (791625)**Grades: 10, 11, 12****Credit: one****Prerequisite: Army JROTC 1****Academy course enrollment must be approved by the appropriate Academy. -****Leadership Education and Training 2 (LET 2)****West Potomac HS Academy - transportation may be provided**

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 (791825)**Grades: 11, 12****Credit: one****Prerequisite: Army JROTC 2****Academy course enrollment must be approved by the appropriate Academy. -****Leadership Education and Training 3 (LET 3)****West Potomac HS Academy - transportation may be provided**

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 (791925)**Grades: 12****Credit: one****Prerequisite: Army JROTC 3****Academy course enrollment must be approved by the appropriate Academy. -****Leadership Education and Training 4 (LET 4)****West Potomac HS Academy - transportation may be provided**

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.

Econ & Pers Fin HN (612036)**Grades: 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.

*Justice HS: Course recommended for grades 10, 11, 12***Econ & Pers Finance (612099)****Grades: 9, 10, 11, 12****Credit: one****Online Campus course enrollment must be approved by the Online Campus.**

Instruction in economics and personal finance prepares students to function effectively as consumers, savers, investors, entrepreneurs, and active citizens. Students learn how economics 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 Fin HN (612097)**Grades: 9, 10, 11, 12****Credit: one / weighted +0.5****Online Campus course enrollment must be approved by the Online Campus.**

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)
Grades: 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
Grades: 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.
Justice HS: Approval required

IB Theory of Knowledge (982062)
Grades: 11 **Credit: one-half / weighted +1.0**
Taken Spring of Junior Year
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.

Advanced Academic Seminar (013060)
Grades: 11 **Credit: NC**
Taken Fall of Junior Year
Prerequisite: Enrollment in the IB Diploma Program

The Advanced Academic Seminar course will support junior IB Diploma Candidates in completion of Internal Assessments (IAs) in various classes, Extended Essay components, and starting Creativity, Action, Service (CAS) project/completion of service hours.

IB Theory of Knowledge (982065)
Grades: 11 **Credit: one-half / weighted +1.0**
After School TOK
Taken Spring of Junior Year
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.

Leadership Train 1 (980800)
Grades: 9, 10, 11, 12 **Credit: one**
Level 1-980800 Level 2-980812 Level 3-980813 Level 4-980814

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.
Justice HS: Approval required

Leadership Train 2 (980812)
Grades: 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 Train 3 (980813)
Grades: 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 Train 4 (980814)
Grades: 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 (788900)
Grades: 11, 12 **Credit: one**

This course will focus on strategies to pass the Reading/Writing SOL or Reading/Business Writing WorkKeys. The Reading SOL or Reading WorkKeys and the Writing SOL or Business Writing WorkKeys are requirement for graduation for both the Standard and Advanced Diploma.

Teachers for Tmrw 1 (906226)
Grades: 11, 12 **Credit: one**
Academy course enrollment must be approved by the appropriate Academy.
Edison HS Academy - transportation may be provided

The Teachers for Tomorrow course introduces juniors and seniors to a career in teaching and education. The primary elements of the curriculum foster the students interest in understanding and appreciating the teaching profession, learning the history, structure and governance of teaching and applying professional techniques of teaching during a field experience. The field experience may involve the preschool level through 12th grade. Educators Rising, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Teachers for Tmrw 2 (907299)
Grades: 12 **Credit: one**
Prerequisite: Teachers for Tomorrow 1
Online Campus course enrollment must be approved by the Online Campus.

In this advanced level course, students will continue to pursue their interest in careers in education. The primary focus of the class is for students to hone their teaching skills and research post-secondary options in the field of education. Students will have the opportunity to learn about the teachers certification process in Virginia and gain further teaching experience through participation in supervised internships outside the teachers for tomorrow's classroom. The internships may involve the preschool level through grade 12. Educators Rising, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Teachers for Tmrw 2 (907226)
Grades: 12 **Credit: one**
Prerequisite: Teachers for Tomorrow 1 (906226)
Academy course enrollment must be approved by the appropriate Academy.
Edison HS Academy - transportation may be provided

In this advanced level course, students will continue to pursue their interest in careers in education. The primary focus of the class is for students to hone their teaching skills and research post-secondary options in the field of education. Students will have the opportunity to learn about the teachers certification process in Virginia and gain further teaching experience through participation in supervised internships outside the teachers for tomorrow's classroom. The internships may involve the preschool level through grade 12. Educators Rising, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

Apprenticeship (984126)
Grades: 10, 11, 12 **Credit: one**
Academy course enrollment must be approved by the appropriate Academy.
Edison HS Academy, Marshall HS Academy - transportation may be provided

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 site. Students should achieve a minimum of 280 hours for the school year (70 hours per quarter).

HEALTH and PHYSICAL EDUCATION

Health & PE 9 (730000)
Grades: 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 (730099)
Grades: 9 **Credit: one**
Online Campus course enrollment must be approved by the Online Campus.

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)
Grades: 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 (740599)
Grades: 10 **Credit: one**
Prerequisite: Successful completion of Health and Physical Education 9
Online Campus course enrollment must be approved by the Online Campus.

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)
Grades: 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)
Grades: 11, 12 **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.

Adv Adapted PE (770050)
Grades: 11, 12 **Credit: one**

Advanced Adapted Physical Education is an elective course available to students who have an IEP and who have successfully completed two years of Adapted Health and Physical Education as required for graduation. Students focus on fitness for vocational tasks as they continue to learn and refine the skills and knowledge to promote life-long 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. Activities are individualized based on the student's present level of performance and identified areas of need. Students may not take this course in lieu of or simultaneous to the Adapted Health and Physical Education courses required for graduation.

Advanced PE Level 1 (751000)
Grades: 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)
Grades: 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)**Grades: 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)**Grades: 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 (764060)**Grades: 11, 12****Credit: one / weighted +0.5****Prerequisite: Successful completion of health and physical education grades 9 and 10. 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 or when turning age 18 (whichever comes first)

Fitness Instructor (764097)**Grades: 12****Credit: one / weighted +1.0****Prerequisite: Successful completion of health and physical education grades 9 and 10. Sports Medicine or Personal Fitness – Level 1 and/or teacher recommendation
Online Campus course enrollment must be approved by the Online Campus.**

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.

IB Sport Exer Sci SL1 (763808)**Grades: 11****Credit: one / weighted +1.0**

This course incorporates the disciplines of anatomy and physiology, biomechanics, psychology and nutrition and is studied in the context of sport, exercise, and health sciences. Students are asked to acquire and apply the knowledge and understanding of exercise, sport, and health science to human performance and related topics: measurement, psychology, and physiological concepts. The IB Sports, Exercise, and Health Science comprehensive curriculum provides excellent preparation for university courses including those specifically related to Sport, Sports Science or Physical Education. IB Sports, Exercise, and Health Science I, together with IB Sports, Exercise, and Health Science SL II, prepares students to take the associated SL exam during senior year.

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 Sport Exer Sci SL2 (763908)**Grades: 12****Credit: one / weighted +1.0****Prerequisite: IB Sports, Exercise and Health Sciences SL 1**

This course is the second segment of a two-year series that prepares students to take the IB Sports, Exercise, and Health Science SL exam. It continues to incorporate the disciplines of anatomy and physiology, biomechanics, psychology and nutrition and is studied in the context of sport, exercise, and health sciences. Students are asked to acquire and apply the knowledge and understanding of exercise, sport, and health science to human performance and related topics: measurement, psychology, and physiological concepts. This comprehensive curriculum provides excellent preparation for university courses including those specifically related to Sport, Sports Science or Physical Education. **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.**

MATHEMATICS**Algebra 1 (313000)****Grades: 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. 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 (313099)**Grades: 8, 9, 10****Credit: one****Prerequisite: Mathematics 7 and/or Pre-Algebra****Online Campus course enrollment must be approved by the Online Campus.**

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 (313097)**Grades: 7, 8, 9****Credit: one / weighted +0.5****Prerequisite: Mathematics 7 and/or Pre-Algebra****Online Campus course enrollment must be approved by the Online Campus.**

The depth and level of understanding expected in Algebra 1 Honors is beyond the scope of Algebra I. 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)**Grades: 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 (314399)**Grades: 9, 10, 11, 12****Credit: one****Prerequisite: Algebra 1****Online Campus course enrollment must be approved by the Online Campus.**

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 (314336)
Grades: 8, 9, 10
Prerequisite: Algebra 1

Credit: one / weighted +0.5

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 (314397)
Grades: 8, 9, 10
Prerequisite: Algebra 1
Online Campus course enrollment must be approved by the Online Campus.

Credit: one / weighted +0.5

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).**

Alg Funct Data Anal (313400)
Grades: 10, 11, 12
Prerequisite: Algebra 1 and Geometry

Credit: one

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 logarithmic equations or a system of equations. Students will be asked to collect and analyze univariate and bivariate data using a variety of statistics and analytical tools, including graphing utilities and other technology tools.

Algebra 2 (313500)
Grades: 9, 10, 11, 12
Prerequisite: Algebra 1 and Geometry

Credit: one

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 (313599)
Grades: 9, 10, 11, 12
Prerequisite: Algebra 1 and Geometry
Online Campus course enrollment must be approved by the Online Campus.

Credit: one

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)
Grades: 8, 9, 10, 11
Prerequisite: Algebra 1 and Geometry

Credit: one / weighted +0.5

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 (313597)
Grades: 8, 9, 10, 11
Prerequisite: Algebra 1 and Geometry
Online Campus course enrollment must be approved by the Online Campus.

Credit: one / weighted +0.5

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 (316093)
Grades: 10, 11, 12
Prerequisite: Geometry and Algebra 2
Online Campus course enrollment must be approved by the Online Campus.

Credit: one / weighted +1.0

In AP Precalculus, students explore everyday situations and phenomena using mathematical tools and lenses. Content of this college-level course corresponds to 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.

AP Precalculus (316004)

Grades: 10, 11, 12

Credit: one / weighted +1.0

Prerequisite: Geometry and Algebra 2

In AP Precalculus, students explore everyday situations and phenomena using mathematical tools and lenses. Content of this college-level course corresponds to 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.

Precalc w/Trig (316000)

Grades: 10, 11, 12

Credit: one

Prerequisite: Geometry and Algebra 2

Precalculus with Trigonometry includes all the topics of Trigonometry 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.

Precalc w/ Trig (316099)

Grades: 10, 11, 12

Credit: one

Prerequisite: Geometry and Algebra 2

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

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.

Precalc w/Trig DE (3160D9)

Grades: 11, 12

Credit: one / weighted +1.0

Prerequisite: Algebra 2

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

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.

Precalc w/Trig HN (316097)

Grades: 8, 9, 10, 11, 12

Credit: one / weighted +0.5

Prerequisite: Algebra 2

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

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.

Trigonometry (315032)

Grades: 11, 12

Credit: one-half

Spring Semester

Prerequisite: Geometry and Algebra 2

Trigonometry topics include circular functions, right triangle ratios, solving trigonometric equations, inverses, identities, the Laws of Sines and Cosines, graphing trigonometric functions, and applying trigonometric techniques to solving real-world problems. 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.

Justice HS: Students must also sign up for Probability & Statistics - 319032

Prob & Statistics (319032)

Grades: 11, 12

Credit: one-half

Prerequisite: Geometry and Algebra 2 or Geometry and AFDA

Fall Semester

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. Course content includes theory of probability, description of statistical measurements, probability distributions, and statistical inference. Optional topics include statistical inference involving two populations, linear regression, and correlation. 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.

Justice HS: Students must also sign up for Trigonometry - 315032

AP Statistics (319204)

Grades: 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 Statistics (319293)

Grades: 10, 11, 12

Credit: one / weighted +1.0

Prerequisite: Geometry and Algebra 2

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

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 (317093)

Grades: 11, 12

Credit: one / weighted +1.0

Prerequisite: Precalculus with Trigonometry or Precalculus with Trigonometry Honors or AP Precalculus

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

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 (317793)**Grades: 12****Credit: one / weighted +1.0****Prerequisite: Precalculus with Trigonometry Honors or AP Precalculus or AP Calculus AB****Online Campus course enrollment must be approved by the Online Campus.**

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 DE (3177D9)****Grades: 11, 12****Credit: one / weighted +1.0****Prerequisite: Precalculus with Trigonometry DENVCC Prerequisite: satisfactory placement scores for ENG 111****Online Campus course enrollment must be approved by the Online Campus.**

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 (317860)****Grades: 11, 12****Credit: one-half / weighted +1.0****Fall Semester****Prerequisite: AP Calculus BC or Calculus DE 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.

*Justice HS: Students must also sign up for Linear Algebra - 319800***Linear Algebra (319800)****Grades: 11, 12****Credit: one-half / weighted +1.0****Spring Semester****Prerequisite: AP Calculus BC or IB Mathematics Analysis and Approaches HL 2 or IB Mathematics Applications and Interpretation HL 2**

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.

*Justice HS: Students must also sign up for Multivariate Calculus - 317860***IB Math Anl&App SL 1 (317109)****Grades: 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)****Grades: 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 1 (317110)****Grades: 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 2 (317159)****Grades: 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)****Grades: 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)****Grades: 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)

Grades: 10, 11, 12

School Site course Justice

Credit: one / weighted +1.0

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 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)

Grades: 12

Prerequisite: IB Mathematics Applications and Interpretation 1

Credit: one / weighted +1.0

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 Sci SL (318508)

Grades: 11, 12

Prerequisite: CS Programming or equivalent

Credit: one / weighted +1.0

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 Sci HL (318509)

Grades: 12

Prerequisite: IB Computer Science SL

Credit: one / weighted +1.0

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.

SCIENCE**Biology 1 (431000)**

Grades: 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 (431094)

Grades: 9, 10, 11, 12

English Learners--Team Taught

Credit: one

This course is designed to develop content understandings and English language proficiency simultaneously. In Biology 1, students engage in scientific inquiry through lab experiences 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 the environment. 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 (431099)

Grades: 9, 10, 11, 12

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

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)

Grades: 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 (431097)

Grades: 9, 10, 11, 12

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

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)

Grades: 10, 11, 12

Prerequisite: Biology 1 and Algebra 1

Credit: one

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 (441099)
Grades: 10, 11, 12 **Credit: one**
Prerequisite: Biology 1, Algebra 1
Online Campus course enrollment must be approved by the Online Campus.

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 (441097)
Grades: 10, 11, 12 **Credit: one / weighted +0.5**
Prerequisite: Biology 1, Geometry 1
Online Campus course enrollment must be approved by the Online Campus.

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 IB Schls (441007)
Grades: 10, 11, 12 **Credit: one / weighted +1.0**
Prerequisite: Biology 1 and Geometry

This course provides a general introduction to chemistry. The topics of study include atomic structure, ionic and covalent compounds, chemical equations, stoichiometry, gases, solutions, and acids and bases. The history and nature of science are included throughout the course. Students learn to design experiments, to collect data, and to analyze data using graphical and statistical methods. They design and conduct experimental research projects. Students participate in an interdisciplinary science research project. Laboratory investigations form a major component of the course, and all students maintain a portfolio of laboratory work to present to the IB examiners. Adv Chemistry I 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 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). **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 1 (438008)
Grades: 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 will be involved in an externally-moderated experimental/research project, either independently or in teams. Laboratory investigations form a major component of the course, and all students maintain a portfolio of laboratory work to present to the IB examiners. If dissections are part of the laboratory experience, alternatives are available. IB Biology I, together with IB Biology II, will prepare students for the higher level exam. Students participate in an interdisciplinary science research project in this class or IB Biology HL II.

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)
Grades: 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). Laboratory investigations form a major component of the course, and all students maintain a portfolio of laboratory work to present to the IB examiners. 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)
Grades: 11, 12 **Credit: one / weighted +1.0**
Prerequisite: IB Chemistry 1 and 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 carbon chemistry. A more thorough study is made of topics in organic chemistry than is traditionally done in high school chemistry. Students will participate in an interdisciplinary science research project. Laboratory investigations form a major component of the course, and all students maintain a portfolio of laboratory work to present to the IB examiners.

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)
Grades: 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 (422099)
Grades: 11, 12 **Credit: one**
Prerequisite: Biology 1 and one other Laboratory Science course
Online Campus course enrollment must be approved by the Online Campus.

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)
Grades: 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 (451050)**Grades: 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.

Active Physics (451090)**Grades: 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.

Physics 1 (451000)**Grades: 11, 12****Credit: one****Prerequisite: Biology 1, Chemistry 1, and Geometry**

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 (451099)**Grades: 11, 12****Credit: one****Prerequisite: Biology 1, Chemistry 1, and Geometry****Online Campus course enrollment must be approved by the Online Campus.**

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)**Grades: 11, 12****Credit: one / weighted +1.0****Corequisite: Precalculus with Trigonometry or IB Mathematics Analysis and Approaches 1**

IB Physics I topics include mechanics, electricity, magnetism, waves, thermodynamics, atomic physics, climate change, and alternative energy sources. Laboratory investigations form a major component of the course, and all students maintain a portfolio of laboratory work to present to the IB examiners. At the end of the first year, students may choose to continue with either standard or higher level IB physics studies, according to the student's preference and the local school's offerings. This course is the first in a two-year sequence designed to prepare students for either the IB standard level or higher level examination in physics. IB Physics I meets the course requirements of Physics 1 Honors. 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.

IB Physics SL.2 (459008)**Grades: 12****Credit: one / weighted +1.0****Prerequisite: IB Physics 1****Corequisite: IB Mathematics Analysis and Approaches 2**

The topics--mechanics, electricity and magnetism, waves, thermodynamics, climate, and atomic physics--addressed in IB Physics I are revisited in more depth and breadth. Additionally, students will study two topics among sight & wave phenomena, quantum & nuclear physics, digital technology, relativity & particle physics, astrophysics, communications, and electromagnetic waves. Students will participate in an interdisciplinary science 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.

Environmental Sci (426500)**Grades: 9****Credit: one**

Environmental Science is a foundational science course intended for 9th grade students. This course builds on student investigations that began in grades K-8 and integrates biology, earth science, chemistry, and engineering to study many components of our environment. Course outcomes focus on scientific inquiry, the physical world, the living environment, resource conservation, human impact on the environment, as well as legal and civic responsibility. Students will focus on data collection and analysis through laboratory experiences and field work, including descriptive and comparative studies. Through a variety of learning experiences to include career education opportunities, students will gain foundational scientific process skills and environmental literacy to engage the community and provide diverse points of view about the management of natural resources.

IB Environ Sys SL (428008)**Grades: 11, 12****Credit: one / weighted +1.0****Prerequisite: Biology 1 and Chemistry 1**

The course focuses on the fundamental structure and functioning of natural systems and the broad impacts of human activities. Students examine systems and models, the ecosystem, global cycles and physical systems, and human population and carrying capacity. They analyze a specific ecosystem as well as the impacts of resource exploitation, conservation and biodiversity, and pollution. Laboratory investigations, including field studies, form a major component of the course, and all students maintain a portfolio of laboratory work to present to the IB examiners.

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)**Grades: 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 (425099)**Grades: 11, 12****Credit: one****Prerequisite: Geosystems or Chemistry 1****Online Campus course enrollment must be approved by the Online Campus.**

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)**Grades: 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 (221999)**Grades: 9****Credit: one****Online Campus course enrollment must be approved by the Online Campus.**

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 (221997)**Grades: 9****Credit: one / weighted +0.5****Online Campus course enrollment must be approved by the Online Campus.**

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)**Grades: 9****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 (222199)**Grades: 10****Credit: one****Online Campus course enrollment must be approved by the Online Campus.**

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 (222107)**Grades: 9****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 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).

World Hist/Geog 2 HN (222197)**Grades: 10****Credit: one / weighted +0.5****Online Campus course enrollment must be approved by the Online Campus.**

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).

US VA History (236000)**Grades: 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 (236099)**Grades: 11****Credit: one****Online Campus course enrollment must be approved by the Online Campus.**

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)**Grades: 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 (236097)**Grades: 11****Credit: one / weighted +0.5****Online Campus course enrollment must be approved by the Online Campus.**

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).

AP World History (234093)**Grades: 10, 11, 12****Credit: one / weighted +1.0****Online Campus course enrollment must be approved by the Online Campus.**

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 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). 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 US History (231993)**Grades: 11****Credit: one / weighted +1.0****Online Campus course enrollment must be approved by the Online Campus.**

In this class blocked with AP English Language and Composition, students consider the ways literature reflects history and the human experience as they refine their awareness of language and the writer's craft. They make connections between history and literature while examining the American experience. Students acquire conceptual knowledge and strengthen critical thinking skills by studying the political, economic, social, and cultural growth of the United States. Students study primary documents and engage in research and writing. They study traditional and contemporary American beliefs, values and characteristics. In this course, students receive one credit in Advanced Placement United States History and one credit in AP Language and Composition (119667).

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). 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 History Amer HL 1 (236009)**Grades: 12****Credit: one / weighted +1.0****Justice HS Pre-Requisite: IB World Topics HL**

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 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). 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.

US VA Government (244000)**Grades: 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.

*Justice HS: 10th Grade only***US VA Government (244090)****Grades: 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 (244099)**Grades: 12****Credit: one****Online Campus course enrollment must be approved by the Online Campus.**

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 Govt HN (244007)**Grades: 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.

*Justice HS: 10th Grade only***US VA Govt HN (244097)****Grades: 12****Credit: one / weighted +0.5****Online Campus course enrollment must be approved by the Online Campus.**

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 Govt DE (2440D9)**Grades: 11, 12****Credit: one / weighted +1.0****Online Campus course enrollment must be approved by the Online Campus.**

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 (244593)**Grades: 12****Credit: one / weighted +1.0****Online Campus course enrollment must be approved by the Online Campus.**

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 WorldTop HL (236109)**Grades: 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 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). 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.

African Amer History (237100)**Grades: 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 (237199)**Grades: 9, 10, 11, 12****Credit: one****Online Campus course enrollment must be approved by the Online Campus.**

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 Hist DE (2371D9)**Grades: 11, 12****Credit: one / weighted +1.0****Online Campus course enrollment must be approved by the Online Campus.**

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 Anthropol SL (237408)**Grades: 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 (280493)**Grades: 10, 11, 12****Credit: one / weighted +1.0****Online Campus course enrollment must be approved by the Online Campus.**

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)**Grades: 11, 12****Credit: one / weighted +1.0**

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.

Justice HS: Recommended Prerequisite: Algebra 2

Law in Action (242000)**Grades: 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 (290099)**Grades: 11, 12****Credit: one****Online Campus course enrollment must be approved by the Online Campus.**

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 (290299)**Grades: 11, 12****Credit: one / weighted +1.0****Online Campus course enrollment must be approved by the Online Campus.**

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)**Grades: 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)

Grades: 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)

Grades: 11, 12

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.

Adv Adapted PE (770050)

Grades: 11, 12

Credit: one

Advanced Adapted Physical Education is an elective course available to students who have an IEP and who have successfully completed two years of Adapted Health and Physical Education as required for graduation. Students focus on fitness for vocational tasks as they continue to learn and refine the skills and knowledge to promote life-long 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. Activities are individualized based on the student's present level of performance and identified areas of need. Students may not take this course in lieu of or simultaneous to the Adapted Health and Physical Education courses required for graduation.

Educ for Employ 1 (908561)

Grades: 9, 10, 11, 12

Credit: one

This course teaches students to make informed career and continuing education choices as they transition from school, gain technical skills, and adapt to the workplace. Students are taught ethical behaviors and career-research, job-acquisition, workplace-communication, self-awareness, self-advocacy, customer-service, and life skills. Students successfully completing two years of this course will satisfy sequential elective requirements prescribed in certain diplomas.

Educ For Employ 2 (908761)

Grades: 9, 10, 11, 12

Credit: one

This course teaches students to make informed career and continuing education choices as they transition from school, gain technical skills, and adapt to the workplace. Students are taught ethical behaviors and career-research, job-acquisition, workplace-communication, self-awareness, self-advocacy, customer-service, and life skills. Students successfully completing two years of this course will satisfy sequential elective requirements prescribed in certain diplomas.

Found of Eng 9-12 (781380)

Grades: 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 of Science (781180)

Grades: 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 US VA Hist 1-2 (781480)

Grades: 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/Wld Hist/Geo 1 (781080)

Grades: 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)

Grades: 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)

Grades: 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)

Grades: 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 (781581)**Grades: 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.

Prof Photo Studio 1 (860781)**Grades:****Credit: one****Academy course enrollment must be approved by the appropriate Academy.**

Fairfax HS Academy -- Placement is determined through the IEP process. 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. A Community Work Experience may be available for this course. Currently, industry certification is not available as part of this course.

Strats for Success (788980)**Grades: 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)**Grades: 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)**Grades: 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.

Work Aware & Trans (907163)**Grades: 9, 10, 11, 12****Credit: three****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 (599026)****Grades: 9, 10, 11, 12****Credit: one****Academy course enrollment must be approved by the appropriate Academy. Fairfax HS Academy, Falls Church HS Academy - transportation may be provided**

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 (599099)**Grades: 8, 9, 10, 11, 12****Credit: one****Online Campus course enrollment must be approved by the Online Campus.**

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 (599526)**Grades: 9, 10, 11, 12****Credit: one****Prerequisite: ASL 1 or equivalency test.****Academy course enrollment must be approved by the appropriate Academy. Fairfax HS Academy, Falls Church HS Academy - transportation may be provided**

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 (599599)**Grades: 8, 9, 10, 11, 12****Credit: one****Prerequisite: American Sign Language 1 or equivalency test****Online Campus course enrollment must be approved by the Online Campus.**

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 (599726)**Grades: 9, 10, 11, 12****Credit: one****Prerequisite: ASL 2 or equivalency test.****Academy course enrollment must be approved by the appropriate Academy. Falls Church HS Academy, Fairfax HS Academy - transportation may be provided**

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 (599799)**Grades: 9, 10, 11, 12****Credit: one****Prerequisite: ASL 2 or equivalency test****Online Campus course enrollment must be approved by the Online Campus.**

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 (599826)
Grades: 10, 11, 12 **Credit: one / weighted +0.5**
Prerequisite: ASL 3 or equivalency test
Academy course enrollment must be approved by the appropriate Academy.
Fairfax HS Academy, Falls Church HS Academy - transportation may be provided

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 (599899)
Grades: 10, 11, 12 **Credit: one / weighted +0.5**
Prerequisite: ASL 3 or equivalency test
Online Campus course enrollment must be approved by the Online Campus.

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 5 (599926)
Grades: 10, 11, 12 **Credit: one / weighted +0.5**
Prerequisite: ASL 4 or equivalency test.
Academy course enrollment must be approved by the appropriate Academy.
Fairfax HS Academy - transportation may be provided

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)
Grades: 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 (501099)
Grades: 8, 9, 10, 11, 12 **Credit: one**
Online Campus course enrollment must be approved by the Online Campus.

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)
Grades: 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 (502099)
Grades: 8, 9, 10, 11, 12 **Credit: one**
Prerequisite: Arabic 1 or equivalency test
Online Campus course enrollment must be approved by the Online Campus.

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)
Grades: 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 (503099)
Grades: 9, 10, 11, 12 **Credit: one**
Prerequisite: Arabic 2 or equivalency test
Online Campus course enrollment must be approved by the Online Campus.

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 (504000)
Grades: 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 (504099)
Grades: 10, 11, 12 **Credit: one / weighted +0.5**
Prerequisite: Arabic 3 or equivalency test
Online Campus course enrollment must be approved by the Online Campus.

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 (505000)
Grades: 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 (505208)**Grades: 11, 12****Credit: one / weighted +1.0****Prerequisite: Three years of Arabic or equivalency test and permission of instructor**

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)**Grades: 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)**Grades: 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 (581026)****Grades: 9, 10, 11, 12****Credit: one****Prerequisite: none****Academy course enrollment must be approved by the appropriate Academy.****Edison HS Academy, Fairfax HS Academy, Marshall HS Academy - transportation may be provided**

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 (581099)**Grades: 8, 9, 10, 11, 12****Credit: one****Prerequisite: None****Online Campus course enrollment must be approved by the Online Campus.**

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 (582026)**Grades: 9, 10, 11, 12****Credit: one****Prerequisite: Chinese 1 or equivalency test****Academy course enrollment must be approved by the appropriate Academy. Edison HS Academy, Fairfax HS Academy, Marshall HS Academy - transportation may be provided**

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 (582099)**Grades: 8, 9, 10, 11, 12****Credit: one****Prerequisite: Chinese 1 or equivalency test****Online Campus course enrollment must be approved by the Online Campus.**

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 (583026)**Grades: 9, 10, 11, 12****Credit: one****Prerequisite: Chinese 2 or equivalency test****Academy course enrollment must be approved by the appropriate Academy.****Edison HS Academy, Fairfax HS Academy, Marshall HS Academy - transportation may be provided**

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 (583099)**Grades: 9, 10, 11, 12****Credit: one****Prerequisite: Chinese 2 or equivalency test****Online Campus course enrollment must be approved by the Online Campus.**

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 (584026)**Grades: 10, 11, 12****Credit: one / weighted +0.5****Prerequisite: Chinese 3 or equivalency test****Academy course enrollment must be approved by the appropriate Academy.****Edison HS Academy, Fairfax HS Academy, Marshall HS Academy - transportation may be provided**

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 (584099)**Grades: 10, 11, 12****Credit: one / weighted +0.5****Online Campus course enrollment must be approved by the Online Campus.**

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 (584005)**Grades: 11, 12** **Credit: one / weighted +1.0****Prerequisite: Chinese 4 or equivalency****Academy course enrollment must be approved by the appropriate Academy.
Marshall HS Academy, Fairfax HS Academy - transportation may be provided**

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 (584207)****Grades: 11, 12** **Credit: one / weighted +1.0****Prerequisite: Three years of Chinese or equivalency test and permission of instructor****Academy course enrollment must be approved by the appropriate Academy.
Edison HS Academy, Marshall HS Academy - transportation may be provided**

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 (585207)****Grades: 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.****Academy course enrollment must be approved by the appropriate Academy.
Edison HS Academy, Marshall HS Academy - transportation may be provided**

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.

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)****Grades: 8, 9, 10, 11, 12****Credit: one****Prerequisite: none**

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)**Grades: 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)**Grades: 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)**Grades: 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)****Grades: 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)****Grades: 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.

WORLD LANGUAGES KOREAN

Korean 1 (587026)
Grades: 9, 10, 11, 12 **Credit: one**
Prerequisite: none
Academy course enrollment must be approved by the appropriate Academy.
Fairfax HS Academy, Chantilly HS Academy - transportation may be provided

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 (587099)
Grades: 8, 9, 10, 11, 12 **Credit: one**
Online Campus course enrollment must be approved by the Online Campus.

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 (587526)
Grades: 9, 10, 11, 12 **Credit: one**
Prerequisite: Korean 1 or equivalency test
Academy course enrollment must be approved by the appropriate Academy.
Fairfax HS Academy, Chantilly HS Academy - transportation may be provided

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 (587599)
Grades: 8, 9, 10, 11, 12 **Credit: one**
Prerequisite: Korean 1 or permission of instructor
Online Campus course enrollment must be approved by the Online Campus.

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 (588025)
Grades: 9, 10, 11, 12 **Credit: one**
Prerequisite: Korean 2 or equivalency test
Academy course enrollment must be approved by the appropriate Academy.
Fairfax HS Academy, Chantilly HS Academy - transportation may be provided

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 (588099)
Grades: 9, 10, 11, 12 **Credit: one**
Prerequisite: Korean 2 or permission of instructor
Online Campus course enrollment must be approved by the Online Campus.

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 (588525)
Grades: 9, 10, 11, 12 **Credit: one / weighted +0.5**
Prerequisite: Korean 3 or equivalency test
Academy course enrollment must be approved by the appropriate Academy.
Fairfax HS Academy, Chantilly HS Academy - transportation may be provided

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 (588599)
Grades: 10, 11, 12 **Credit: one / weighted +0.5**
Online Campus course enrollment must be approved by the Online Campus.

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 (589026)
Grades: 10, 11, 12 **Credit: one / weighted +0.5**
Prerequisite: Korean 4 or equivalency test.
Academy course enrollment must be approved by the appropriate Academy.
Chantilly HS Academy, Fairfax HS Academy - transportation may be provided

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)
Grades: 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.

Latin 2 (532000)
Grades: 8, 9, 10, 11, 12
Prerequisite: Level 1 or equivalency test

Credit: one

Students learn additional vocabulary, more complex language structures and syntax in order to be able to read more challenging passages in Latin. Language structures and syntax are developed through the study of literary passages. Students continue to explore the identities, society, and history of the Roman Republic while studying about foods, education, entertainment, social structures, the heroic cycle, and divination.

Latin 3 (533000)
Grades: 9, 10, 11, 12
Prerequisite: Latin 2 or equivalency test

Credit: one

Students continue to develop and refine their reading skills through the study of Latin literature. Additional vocabulary, more complex language structures and syntax are emphasized in order to be able to read authentic Latin. Students continue to explore the identities, society, and history of the Roman Empire while studying about literature, science and technology, women's voices, philosophy, ceremonies, and transformational mythology. Through translation and interpretation, students gain a greater understanding of the foundation of Western government and civilization.

WORLD LANGUAGES

SPANISH

Spanish 1 (551000)
Grades: 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 (551099)
Grades: 8, 9, 10, 11, 12
Prerequisite: None
Online Campus course enrollment must be approved by the Online Campus.

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 2 (552000)
Grades: 8, 9, 10, 11, 12
Prerequisite: Spanish 1 or equivalency test

Credit: one

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 (552099)
Grades: 8, 9, 10, 11, 12
Prerequisite: Level 1 or equivalency test.
Online Campus course enrollment must be approved by the Online Campus.

Credit: one

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 3 (553000)
Grades: 9, 10, 11, 12
Prerequisite: Spanish 2 or equivalency test

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.

Spanish 3 (553099)
Grades: 9, 10, 11, 12
Prerequisite: Spanish 2 or equivalency test.
Online Campus course enrollment must be approved by the Online Campus.

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.

Spanish 4 (554000)
Grades: 9, 10, 11, 12
Prerequisite: Spanish 3 or equivalency test

Credit: one / weighted +0.5

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 (555000)
Grades: 10, 11, 12
Prerequisite: Spanish 4, or Advanced Placement Language and Culture, or equivalency test

Credit: one / weighted +0.5

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.

IB Spanish SL 1 (554208)
Grades: 11, 12
Prerequisite: Three years of Spanish or equivalency test and permission of instructor

Credit: one / weighted +1.0

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)**Grades: 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)**Grades: 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.

Spanish Her Spkrs 1 (551100)**Grades: 8, 9, 10, 11, 12****Credit: one****Prerequisite: Permission from instructor**

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 Her Spkrs 2 (552100)**Grades: 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 Her Spkrs 3 (553100)**Grades: 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.

AP Spanish Language (557093)**Grades: 11, 12****Credit: one / weighted +1.0****Prerequisite: Level 4 or equivalency test****Online Campus course enrollment must be approved by the Online Campus.**

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. Only rising 11th grade students enrolled in IB Spanish Lang & Lit 1 should enroll in this course.

AP Spanish Lit (558093)**Grades: 11, 12****Credit: one / weighted +1.0****Prerequisite: Level 4, Advanced Placement Spanish Language and culture, or equivalency test****Online Campus course enrollment must be approved by the Online Campus.**

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 Span Lang/Lit SL1 (554108)**Grades: 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 Sp Lang/Lit SL 2 (555108)**Grades: 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 Sp Lang/Lit HL 2 (555109)**Grades: 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 (598026)

Grades: 9, 10, 11, 12

Credit: one

**Academy course enrollment must be approved by the appropriate Academy.
Falls Church HS Academy - transportation may be provided**

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 (598126)

Grades: 9, 10, 11, 12

Credit: one

**Prerequisite: Vietnamese 1 or equivalency test.
Academy course enrollment must be approved by the appropriate Academy.
Falls Church HS Academy - transportation may be provided**

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 (598226)

Grades: 9, 10, 11, 12

Credit: one

**Prerequisite: Vietnamese 2 or equivalency test.
Academy course enrollment must be approved by the appropriate Academy.
Falls Church HS Academy - transportation may be provided**

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 (598326)

Grades: 10, 11, 12

Credit: one / weighted +0.5

**Prerequisite: Vietnamese 3 or equivalency test
Academy course enrollment must be approved by the appropriate Academy.
Falls Church HS Academy - transportation may be provided**

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 (598426)

Grades: 10, 11, 12

Credit: one / weighted +0.5

**Prerequisite: Vietnamese 4 or equivalency test
Academy course enrollment must be approved by the appropriate Academy.
Falls Church HS Academy - transportation may be provided**

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.