

Overview of High School Curriculum

Educational Philosophy

The High School program at Christ Chapel Academy provides a unique environment for the teenager in which he/she can obtain the academic and practical skills that he/she will need to succeed in the adult world while allowing him/her to develop and affirm his/her relationship with Christ. Designed for 9th through 12th graders who desire to pursue their education at a post-secondary level, the curriculum is uniquely integrated with a Christian worldview. Degreed and certified teachers, all born again Christians, model Christ as they daily interact with students inside and outside the classroom setting. The administration of the Academy has carefully chosen materials that will actively involve students in learning and encourage them to develop the higher level thinking skills of reasoning, critical thinking, and problem solving. High School at Christ Chapel Academy is designed to develop and encourage the future Christian leaders of the 21st century.

Graduation Requirements

General Studies Diploma	24 Credits
Advanced Studies Diploma	29 Credits

College Credits – “Getting a Step Ahead”

Incorporated into each high school student’s program will be the opportunity to earn twenty-one college credits, with the potential for him/her to earn up to as Associates of Arts Degree. Each high school student has the opportunity to be simultaneously enrolled in the Academy as well as Valley Forge Christian College Woodbridge Campus (VFCCWC). VFCCWC is certified to operate by the State Council of Higher Education for Virginia (SCHEV). VFCCWC is regionally accredited by the Middle States Association of Colleges and Schools and recognized as such by the Southern Association of Colleges and Schools.

Bible Curriculum

The Life of Christ (1 Credit) (Non-college credit)

A comprehensive study of the four Gospels (Matthew, Mark, Luke, and John) including the background and authorship of each book and its particular content and orientation. The life and ministry of Christ is studied with particular emphasis on the parables of Jesus with various interpretative approaches.

Old Testament Survey (10th Grade - First semester) (1/2 credit) (Dual-Enrollment VFCCWC 3 Credits)

This course will provide a study of the nature, contents and history of the Old Testament, and an overview of its background and key themes. These themes are examined both from within their own contexts and from the perspective of their New Testament fulfillment. In this course, the student will explore the collection of ancient books we call the Old Testament and will seek to gain a working knowledge of the main sources of our understanding of Judaism and the roots of the Christian faith.

New Testament Survey (10th Grade - Second semester) (1/2 credit) (Dual-Enrollment VFCCWC 3 Credits)

This course will provide a study of the nature, contents and history of the New Testament, with background study in the inter-testament period. In this course, the student will explore the collection of ancient books we call the New Testament and will seek to gain a working knowledge of the historical and theological roots of the Christian faith.

Foundations of Christian Living (11th Grade) (1/2 credit) (Dual-Enrollment VFCCWC 3 Credits)

This course will provide a practical study and application of principles for Christian living and lifelong spiritual formation. The course covers basic knowledge, skills, and practices needed for spiritual, physical, intellectual, and social growth in harmony with Luke 2:52. Emphasis is placed on prayer, personal Bible study, relationships, and other aspects of the devotional life.

Introduction to Biblical Interpretation (11th Grade - First semester) (1/2 credit) (Dual-enrollment VFCCWC 3 Credits)

This course is designed to acquaint the student with a basic understanding of the principles of Biblical interpretation as well as the primary tools of Biblical research. The student will then apply these principles and tools to the study of the Gospel of Mark.

Ancient and Medieval World History (12th Grade) (1/2 Credit) (Dual-Enrollment VFCCWC 3 Credits)

A survey of world civilization from the beginning of civilization to the Renaissance. Special attention is given to major events, individual, and the cultural contributions of each civilization.

Introduction to Christian Philosophy (12th Grade) (1/2 credit) (Dual-Enrollment VFCCWC 3 Credits)

A survey of the fundamentals of philosophy, including essential terminology, and major thinkers. An overview of metaphysics, epistemology, deductive and inductive logic, ethics and philosophy of religion. The course will also provide the fundamentals of a Christian perspective on philosophy, philosophical theological concepts, and apologetics.

Elective/Dual-Enrollment College Courses**Foundation of Christian Thought (11th Grade - Second semester) (1/2 credit) (Dual-Enrollment VFCCWC 3 Credits)**

This course is a practical study and application of principles for Christian thinking. The course covers basic knowledge and skills needed for effective interaction and outreach in a post-modern and non-Christian culture, including apologetics, ethics, and response to contemporary issues. Emphasis is placed on the development of a Christian worldview.

Biblical Theology (12th Grade - First semester) (1/2 credit) (Dual-Enrollment VFCCWC 3 Credits)

A practical introduction to the study of the Bible. This course provides an overview of fundamental issues of interpretation, inspiration, manuscripts, and translation. Emphasis is placed on basic approaches to Bible study and appropriate use of Biblical reference tools.

English / Language Arts / Literature Curriculum

The Christ Chapel Academy English Department develops the critical thinking skills of the student through extensive critical literary reading, analysis, and discussion and offers a comprehensive program designed to develop each student's skills in grammar, writing, vocabulary, and critical reading. Particular emphasis is placed on varied and frequent writing.

English I (1 credit)

This course emphasizes writing, vocabulary, and critical reading. The writing portion of the course includes narrative, expository, descriptive, persuasive, and reflective writing. Additionally, writing for assessment (e.g. the SAT) will be included. Students will engage in the writing process: prewriting, drafting, revising, proofreading, and publishing. Students will apply knowledge of literary terms and develop critical thinking and analysis skills through the study of literature: short stories, poetry, novels, and nonfiction. Students will read one Shakespeare play and a selection from ancient classic literature. (*Prerequisite:* Completion of Introductory English with "C" or above, completion of Basic English with "C" or above. New students must pass a written exam to enter this class.)

English II (1 credit)

This course emphasizes writing, vocabulary, and critical reading. The writing portion of the course includes narrative, expository, descriptive, persuasive, and reflective writing. Additionally, writing for assessment (e.g. the SAT) will be included. Students will apply advanced knowledge of literary terms and reinforce critical thinking and analysis skills through the study of literature: short stories, poetry, novels, and nonfiction. Students will read at least one Shakespeare play and at least one selection from ancient literature. (*Prerequisite:* Successful completion of English I. New students must pass a written exam to enter this class.)

English III (1 credit)

This course emphasizes American literature and the themes that reflect American history and culture. Students will continue to apply advanced knowledge of literary terms and reinforce critical thinking and analysis skills through reading and writing about American literature. Students will read at least one Shakespeare play and at least one selection from classic literature. The writing portion of the course includes narrative, expository, descriptive, persuasive, and reflective writing with particular emphasis on advanced sentence structure and vocabulary usage. Additionally, writing for assessment (e.g. the SAT) and research paper writing will be included. (*Prerequisite:* Successful completion of English II. New students must pass a written exam to enter this class.)

English IV (1 credit)

This course emphasizes British literature. Students will continue to advance their knowledge of literary terms and reinforce critical thinking and analysis skills through reading and writing about British literature. Students will read at least one Shakespeare play and at least one selection from classic literature. The writing portion of the course includes expository and informational writing with particular emphasis on collegiate-level sentence structure and vocabulary usage. Additionally, writing for assessment (e.g. the SAT) and research paper writing will be included. (*Prerequisite:* Successful completion of English III. New students must pass a written exam to enter this class.)

Elective/Dual-Enrollment College English Courses**English Seminar I – The Novel (1 credit) (Dual-Enrollment VFCCWC 3 Credits)**

This is an elective course. Students will read a variety of novels specifically selected with the Advanced Placement Exam for English Literature in mind. Each novel will receive in-depth critical literary analysis. Students will participate in discussion and activities related to the novel. Students will demonstrate their critical reading skills through frequent and challenging essay writing

College Composition (1/2 credit) (Dual-Enrollment VFCCWC 3 Credits)

The course emphasizes writing effective expository prose with stress upon the writing process. Focus, content, organization, style, and conventions are practiced within the context of student writings.

College Writing and Research (1/2 credit) (Dual-Enrollment VFCCWC 3 Credits)

This course stresses the writing process and introduces the skills necessary to conduct college-level research. Emphasis is placed on argumentative and analytical writing supported by research.

Journalism/Photo Journalism/Digital Yearbook (1 Credit)**Journalism I & II**

Students will prepare one yearbook, a web based yearbook. This is a hands-on activity-based course which focuses on the development of skills leading to specific finished products. Students will learn how to use publishing and photo editing software. This course will greatly enhance students' communication skills.

Photography (1 Credit)

Students will learn the fundamentals of photographic composition and design layout. Students will learn subject resolution, shading and digital camera settings. Students will learn the art of caption writing to bring increased life to each photograph in the yearbook.

Mathematics and Business Curriculum

Mathematics is a consistently exact science. Its laws never change. The goals of mathematics at Christ Chapel Academy are three-fold. First is to inspire and direct our students towards academic excellence by learning and grasping the progressively more difficult concepts of the subject; second, to teach our students to apply those concepts in real-life situations and circumstances; and third, to help our students to understand, through the consistency of the discipline, the consistency and faithfulness of the God that created them and His hand in our creation.

Algebra 1 (1 credit)

Algebra 1 is taught as the first of the high school mathematics courses. Both eighth and ninth grade students are eligible provided that they have met all the math pre-requisites. The intention of this course is to provide a basic introduction to function families, mainly linear and quadratic. It uses these concepts to symbolize and solve real-world problems and serves as a foundation to the upper-level math courses. Beyond that, it continues to provide the student an understanding the God that created each of them and loves them with an unending love and His hand in our world.

Geometry (1 credit)

This course is designed to provide the student with a solid foundation in geometric concepts required in advanced-level math classes in high school and college. The mathematical content is aimed at developing reasoning skills and the ability to construct formal, logical arguments and proofs. The course focuses mainly solely on plane (Euclidean) geometry. Beyond that, it serves as part of understanding the God that created each of them and loves them with an unending love and of His hand in our world.

Algebra 2 (1 credit)

Algebra 2 is normally taught as the third of the high school mathematics courses. All High School students are eligible provided that they have met all the prior math pre-requisites. The intention of this course is to build on the foundation of previous courses and to continue for the student the pursuit of academic excellence and inspire individual student success in the field of mathematics. Beyond that, it continues to provide the student an understanding the God that created each of them and loves them with an unending love and His hand in our world.

Honors Pre-Calculus (1 credit)

This course blends the concepts and skills that must be mastered before enrollment in a college-level calculus course. The course includes the study of relations and functions, exponential and logarithmic functions, trigonometry in triangles, trigonometric identities and equations, trigonometric functions, polar coordinates, sequences and series, and data analysis. Beyond that, it serves as part of understanding the God that created each of them and loves them with an unending love and of His hand in our world.

Honors Calculus (1 credit)

Calculus is the highest level mathematics course offered at Christ Chapel Academy. Students of any high school grade can take calculus provided that they have met all the prior math pre-requisites. The course includes a study of functions, limits, differentiation, and integration. It extends the content to symbolize and solve real-world problems and inspires individual student success in the field of mathematics. Beyond that, it continues to provide the student an understanding the God that created each of them and loves them with an unending love and His hand in our world.

Consumer Mathematics (1 credit)

Consumer math covers the financial transactions encountered in life, which range from buying food and clothing to taking out loans for cars and houses as well as saving for retirement. Consumer math also involves planning a budget for effective use of financial resources and developing a consistent savings plan.

Personal Finance and Economics (1 credit non-math)

Students will learn how to navigate the financial decisions they must face and to make informed decisions related to career exploration, budgeting, banking, credit, insurance, spending, taxes, saving, investing, buying/leasing a vehicle, living independently, buying/renting a home, mortgages, and inheritance. Development of financial literacy skills and an understanding of economic principles provide the basis for responsible citizenship and career success.

Elective/Dual-Enrollment College Courses Math Courses

Fundamentals of Mathematics (1/2 credit) (Dual-Enrollment VFCCWC 3 Credits)

This course reviews the basic math skills of mathematical patterns, systems of numeration, and modular arithmetic. Problem solving is emphasized.

Business Mathematics (1/2 credit) (Dual-Enrollment VFCCWC 3 Credits)

A review of quantitative methods designed to meet needs of the business world. The course will review calculations involving whole numbers, fractions, decimals, and algebraic equations. It will also cover aspects of banking, budgeting, insurance, income tax, installment buying, time value of money, payroll deductions, discounts and percentages.

Survey of Math (1/2 credit) (Dual-Enrollment VFCCWC 3 Credits)

Survey of Math is designed for liberal arts students taking mathematics survey courses. The topics covered require a basic algebra background and show math application in such areas as weather, photography, music, health and money.

History, Geography and Government Curriculum

World History II and Cultures in Christian Perspective (9th Grade) (1 credit)

State the basic components of a Christian worldview and explain how they affect one's interpretation of history. Develop and practice the skills necessary to study history and take standardized tests. Identify the key individuals and major events in each era of Modern World History including the major causes and effects of those events. Understand the significant and recurring themes in history such as power and authority, religious and ethical systems, revolutions, interaction with the environment, economics, cultural interaction, empire building and science and technology. Understand the role geography has played in the events of human history with emphasis on the following themes: location, human/environment interaction, region, place, and movement.

World Geography in a Christian Perspective (10th Grade) (1 credit)

This course begins with an examination of the Biblical account of creation emphasizing God's omnipotence as Creator and Sustainer of life and His instructions to mankind regarding His creation. Students will also examine the cause and impact of sin on both physical and human geography and the role and responsibility of a Christian in human society. Through the use of tools such as maps, globes, satellite technology, statistical data, and an understanding of earth's physical systems, students develop and strengthen basic geography skills as they collect, organize, analyze, and present geographic information using a five theme approach (location, place, region, human-environment interaction and movement). Students distinguish and describe each world region by its physical and human geographic characteristics with emphasis on landforms, water systems, forces of physical change, climate/vegetation, population demographics, land use and resources, industry/economic development, urbanization, politics and culture. Students also analyze the role geography has played in the events of human history, examine current issues that challenge world regions, recognize the effects of technology on globalization and apply geographic skills and knowledge in order to make informed daily life decisions and reasoned political decisions.

United States and Virginia History in Christian Perspective (11th Grade) (1 credit)

This course begins with the Biblical truth of God's providential leading in the events of history and examines the impact of Christianity on U.S. history, American ideals and institutions. Focus is placed on key developments that transformed the U.S. from an isolated, agrarian society to the world's leading superpower. Students strengthen critical thinking skills by interpreting primary and secondary source materials as historical evidence while studying major events, issues, and personalities of the past providing perspective for understanding contemporary issues and problems. The role of Virginia in the development of the United States is included. Topics included for study: Exploration and Colonization, European Economic Influences and Slavery in the Americas, the American Revolution, the Constitution and Early National Period, Civil War and Reconstruction, the Progressive Era, U.S. as Emerging World Power, World War II, the Cold War, Civil Rights Movements and the Contemporary U.S. Analytical writing is required, both in essays and in research papers.

United States Government (12th Grade) (1 credit)

The goal of this course is to prepare informed, rational, humane, and participating citizens committed to the values and principles of American constitutional democracy. Students learn the biblical foundations of American government examine the constitutional roles, responsibilities and powers of federal and state government and observe how government functions in their life today. Through field trips, simulations, guest speakers, and active political participation students discover factors that influence political behavior. Through written, oral and visual presentations and current event debate, emphasis is placed on strengthening critical thinking skills such as interpreting data, recognizing bias, analyzing issues, drawing conclusions and forming opinions. Most importantly, students learn biblical principles regarding government and society and how to apply those principles to the complex political issues and decisions they face as citizens and voters.

Elective/Dual-Enrollment College History Courses

Modern Missions Movements (1/2 credit) (Dual-Enrollment VFCCWC 3 Credits)

Historical development of the Christian mission expansion since 1900. Explores key persons in the expansion of the Protestant church. The missiological reinterpretation of church history focuses on the dynamics of this expansion and its implications.

Science Curriculum

Earth Science (9th Grade) (1 credit)

Students will be presented with a solid foundation of in topics in the area of Earth Science. Presented from a Biblical perspective, this course covers the following areas:

Meteorology:	The atmosphere and weather
Oceanography:	A survey of the seas
Chemistry:	Foundations of Chemistry, molecules and Chemistry, Chemistry in Action
Geology:	Foundations of Geology, rocks and minerals, weathering and erosion, interpreting the fossil record
Physics:	Mechanics: physics of motion, waves and sound, light and color, electrostatics and magnetism, electricity, electronics

Biology (10th Grade) (1 credit)

Biology through a Christian perspective will cover the following subject areas: botany; human anatomy and physiology; zoology; cellular and molecular biology. Laboratory work will include dissections, microscopy, field studies, nutrition, cellular biology and genetics.

Chemistry (11th Grade) (1 credit)

Chemistry taught through a Christian perspective covers the following topics: Measurement in Chemistry, Matter: the substance of Chemistry, Stoichiometry: elements and compounds; chemical reactions; light; electrons; and Atomic Structure; Periodic Table; chemical bond, solutions and colloids; ionic equilibrium in solutions; oxidation-reduction, electrochemistry; Nuclear Chemistry; Organic Chemistry, and Weekly laboratory studies.

Physics (12th Grade) (1 credit)

Students will be presented with a perspective of Physics that shows the harmony between scientific knowledge and Christian belief. Specific topics to be covered include: Basic concepts: matter and energy; mathematics of physics; three states of matter: liquid, gaseous, solid; mechanics; velocity and acceleration; forces in nature, concurrent forces; motion in two dimensions; work and machines; energy and momentum; rotary motion, gravitation; laws of thermodynamics wave phenomena: waves; sounds, music, light: nature of light; reflection of light; refraction of light; wave optics; electricity and magnetism: electrostatics; magnetism; current generation, Ohm's Law; load characteristics; electrical devices, modern physics: quantum theory; special relativity; light in modern technology, and electronics.

Foreign Languages Curriculum and Rosetta Stone**Spanish I (1 credit)**

This course teaches basic language patterns and vocabulary. Repetition and comprehensible input are important components of this course. Focus is on all four language skills listening, speaking, reading and writing. Culture is an integral part of the course and is introduced through the use of media, games, adapted readings and class discussions.

Spanish II (1 credit)

This course continues to further develop and improve listening, speaking, reading and writing skills. Emphasis is placed on comprehension of Spanish, as well as, reading and writing practice in the target language using a variety of activities incorporating familiar vocabulary and structures.

Spanish III (1 credit)

This course is designed for the serious language student who has excelled in Levels 1 and 2. It offers an in-depth study of grammar and vocabulary, which provides the means for student expression in spoken and written form. Emphasis is placed on the student's ability to respond to and communicate practical needs and opinions and to extract information from different texts. Daily class participation is expected. The course fulfills the requirement for the advanced studies diploma.

Spanish IV (1 credit)

This course provides students the opportunity to further develop, improve and refine their listening, speaking, reading and writing skills. Emphasis continues to be placed on aural skills with additional emphasis on reading and writing in the target language. Supplementary materials are implemented to enhance language use. Students experience multiple opportunities to demonstrate their proficiency in Spanish in different contexts. Aspects of contemporary Hispanic culture are emphasized through cultural readings, media, games, and class discussions.

Rosetta Stone (1 Credit NON NCAA Approved)

Rosetta Stone is a "Non-traditional" approach to learning a foreign language. Students work synchronously in a computer lab together under the guidance of a qualified teacher, building their basic speaking, listening comprehension, reading and writing skills. Rosetta Stone has the advantage of having the online teaching modules they can access from home to study in greater detail.

Spanish

Spanish I (1 credit)
Spanish II (1 credit)
Spanish III (1 credit)
Spanish IV (1 credit)

Latin

Latin I (1 credit)
Latin II (1 credit)
Latin III (1 credit)

French

French I (1 credit)
French II (1 credit)
French III (1 credit)
French IV (1 credit)

Elective/Dual-Enrollment College Foreign Languages Courses

Beginning Greek I (1/2 credit) (Dual-Enrollment VFCCWC 3 Credits)

An introduction to the basic elements of New Testament Greek, with emphasis upon grammatical forms, syntax, and vocabulary.

Greek II (1/2 credit) (Dual-Enrollment VFCCWC 3 Credits)

Greek II is a continuation of Greek I and includes readings in the Greek New Testament.

Beginning Hebrew I (1/2 credit) (Dual-Enrollment VFCCWC 3 Credits)

An introduction to the basic elements of Old Testament Hebrew, with emphasis upon basic vocabulary, syntax, and grammar.

Beginning Hebrew II (1/2 credit) (Dual-Enrollment VFCCWC 3 Credits)

Hebrew II is a continuation of Hebrew I.

Information Technology Curriculum

IT Essentials 1 & 2 (1 Credit) “CompTIA A+”

This course is an overview of computer architecture, which stresses the underlying design principles and the impact of these principles on computer performance. General topics include design methodology, processor design, control design, memory organization, system organization, and parallel processing. We will be using the CompTIA A+ book for the instructional material, lab exercises and quizzes. It is suggested students be required to pass the CompTIA A+ practice certification exam at the end of this course to receive credits, and in order to continue with the Cyber Security program.

Computer Networks (1/2 Credit) “CompTIA Network+”

This course is an introductory look at computer communication from an engineering perspective. It will focus on the principles of computer communication and the basic concepts in the architecture of computer networks. As an introductory course, it covers a broad set of concepts and implementations, addressing both theory and practice, using the layered model of computer communications. Labs are used to reinforce concepts and develop practical networking skills. We will be using CompTIA Network+ book for the instructional material, lab exercises and quizzes. It is suggested students be required to pass the Network + practice certification exam at the end of this course to receive credits, and in order to continue with the Cyber Security program.

Advanced Computer Networks – Hardening Basics (1/2 Credit)

This course proposes to introduce the student to the identification of vulnerabilities, forms of attack, appropriate countermeasures, and the detection and defense of the same. Tools and techniques for the securing of hardware, software and data, including physical security are covered. The issues and facilities available to both the intruder and administrator will be examined and evaluated with appropriate exercises to illustrate their effect. The textbook used for this course is “All In One CompTIA Security+, with labs to support the learning process.

Programming and Data Structures I (1/2 Credit)

Using the C++ programming language, this course introduces algorithmic problem solving, basic control and data structures, and procedural abstraction. Topics include language syntax and semantics, arithmetic expressions, operators, functional decomposition, functional calls and parameters, file input and output, identifier scope and lifetime, switch and loop structures, array processing, strings, searching and sorting. The class will use Starting out with C++ textbook, and be instructor led, with labs.

Advanced Programming JAVA (1/2 Credit)

The Object-Oriented Programming course is a study of concepts, terminology, and methodologies used in object-oriented systems, languages, and applications. Students will design and implement software systems using object-oriented analysis and design techniques. The purpose of this course is to develop a thorough understanding of object-oriented (OO) design, systems, and applications. The lecture portion of the course will emphasize both OO design concepts and language specific applications. Programming assignments will provide students with experience in an object-oriented programming language, namely JAVA. Also, comparisons will be made to OO design concepts in C++. The textbook used for this course will be Java for the Absolute Beginner.

Computer Systems Technology I (1/2 Credit)

System Administration I topics focus on Microsoft Windows 2008. This course is designed to provide students with essential knowledge and skills to implement, administer, and troubleshoot servers in a networked environment. Operating system concepts, such as installing a standalone system, file systems authentication, and

user support services are explored. Topics will include security issues, user and group administration, active directory services, DHCP, DNS, SSH, backup and restoration strategies and techniques, integrated mass storage technologies and alternative client technologies. The class will use Configuring Windows server 2008 Active Directory textbook, and be instructor led with, with labs delivered through the Microsoft IT Academy E-learning suite.

Computer Systems Technology II (1/2 Credit)

System Administration II topics focused on the Linux operating system. This course is designed to provide students with essential knowledge and skills to implement, administer, and troubleshoot servers in a networked environment. Operating system concepts, such as installing a standalone system, file systems authentication, and user support services are explored. Topics will include security issues, user and group administration, directory services, DHCP, DNS, SSH, electronic system update and maintenance, backup and restoration strategies and techniques, integrated mass storage technologies and alternative client technologies. The class will use the textbook “A Practical Guide to Ubuntu Linux”, be instructor led, with labs.

IT Fundamentals - Skills for Computing Professionals – Ethics (1/2 Credit)

The Skills for Computing Professionals will focus on the professional skills that computer scientists will need to be successful in their careers and lives. There are two key areas of study, communication skills needed by computer scientists and their ethical responsibilities. Communication skills will include writing and giving oral presentations about computer science topics and life skills. Ethical issues will be explored from a computer science perspective.

Internship or Senior Project (1/2 Credit)

The students will intern and journal their productivity, meeting as a class on a weekly basis to discuss their experiences. If no internship program is available students will work on a senior project.

IT Programming - Survey of Programming Languages (1/2 Credit)

The Survey of Programming Languages course is a collection of selected programming languages for students familiar with programming. Students will write programs in a broad variety of languages, with an emphasis on Python. Students at the conclusion of this course will be familiar with Ruby, Perl, XHTML and Python. Textbooks used for this course will include Ruby Programming for the absolute beginner, Perl Programming for the absolute beginner, Python Programming for the absolute beginner and HTML, XHTML, & CSS for the Absolute Beginner.

IT Programming - System Penetration Testing (1/2 Credit)

This class will immerse the students into a hands-on environment where they will be shown how to conduct penetration testing. They will be exposed to an entirely different way of achieving optimal information security posture in their organization. They will scan, test, penetrate and secure their own systems. The lab intensive environment gives each student in-depth knowledge and practical experience with the current essential security systems. Students will begin by understanding how perimeter defenses work and then be lead into scanning and attacking their own networks, no real network is harmed. Students then learn how intruders escalate privileges and what steps can be taken to secure a system. Students will also learn about Intrusion Detection, Policy Creation, Social Engineering, DDoS Attacks, Buffer Overflows, Virus Creation and others. EC-Council textbook on CEHv8 will be used in this course.

Computer Technology Curriculum

Introduction to Keyboarding (1 credit)

Students receive instruction on proper computer keyboarding techniques beginning with the home row keys and continuing with alpha/numeric keys and basic punctuation keys. In addition, students are taught relaxation and stretching exercises to reduce the effects of stress-related injuries on wrists, hands, back, and neck. This is a self-paced course with tests given weekly to chart progress. Students are required to pass Levels 1-9 to successfully complete the course.

Intermediate MS Word and Excel (1 credit)

This is an intermediate course in the use of two MS Office applications – word processing and spreadsheet/databases. Using these applications, students create multiple documents, such as letters, reports, spreadsheets (with simple formulas), databases, charts, and graphs.

Keyboarding and Technology Applications I (1 credit)

This course includes two distinct sections:

Keyboarding:

Students receive instruction on note-taking skills in preparation for classroom lectures. Challenging keys, such as symbols and numbers are introduced.

Technology Applications:

Students receive instruction that enables them to become computer literate beyond the general knowledge of applications and instructs them in the practical application of computer software skills. Students gain the skills they need to improve their reports (using outlines, creating tables, organizing long reports, and creating final drafts)

MS Publisher and PowerPoint (1 credit)

Students learn the skills needed to create impressive newsletters and dazzling presentations using special effects, clip art, WordArt, and more. They will gain knowledge in project design and creative oral presentations. (*Prerequisite: Students should have a basic understanding of these applications.*)

Internet Safety and Etiquette (1 credit)

This course improves student awareness of some of the risks involved when using the Internet and the steps that should be taken for safe Internet use. Topics include Internet etiquette, or “netiquette”, technology copyright basics, and plagiarism. Instructor is i-SAFT™ certified and qualified in instruction and development of i-Safe™ programs.

Introduction to Multimedia (1 credit)

Students gain an understanding of the fundamentals of multimedia with hands-on learning of multimedia tools and skills. Students work independently and collaboratively on the planning, design, and completion of projects. (*Prerequisite: Internet Safety and Etiquette class.*)

Introduction to Web Design (1 credit)

Students learn the skills needed to plan and create websites. Instruction centers on principles of good web design and developing sites that are informative, visually appealing, and easy to navigate. (*Prerequisite: Internet Safety and Etiquette class.*)

Fine Arts Curriculum

Drama Curriculum

This course is designed to give the student an understanding and appreciation for drama through examining the nature of drama, drama history (including religious drama history) as it relates to world cultures and values, and an overview of dramatic literature – including a look at the contemporary world theater. Opportunities for practical application are made available for individual growth and encouragement of creativity.

Intro/Advanced Theater Productions (1 credit)

Students will explore principles of drama as used in religious education, corporate worship, and Christian ministry. Students will participate in two productions annually. Performance opportunities will be arranged by the program director.

Art Curriculum

Introduction to Art (1 credit)

This is an introductory course covering art history and terminology of art. Course work will include practical hands-on experience in various forms of art.

Advanced Art (1 credit)

This course will allow advanced art students to develop skills in a variety of media. Each student will complete a personal portfolio of works that will be displayed in the school art gallery.

Band Curriculum

Grade level progressions listed below are only a guide line. Eligibility for any Level-Beginning, Intermediate, Advanced, or Artist – will be determined by an ability level evaluation (placement test/audition) prior to assignment to a Band or Vocal/Choir.

Beginning/Intermediate Level 1-2 and 2-4 (9th Grade) (1 credit)

Students in the ninth grade will receive instruction combining Beginning and Intermediate Levels 1-2 and 2-4. Students will demonstrate proper care of instrument and will be familiar with the technology of the instrument. They will demonstrate basic positions, tone production, and fingerings, and will count, read, and perform the beginning level of music being studied from the Virginia Band and Orchestra Directors Association (VBODA) Selective Music List Solo Repertoire, Level 1-4. Students will also begin to use more articulations, perform scales and music in more difficult key signatures, demonstrate vibratos, and perform music at an intermediate level of difficulty and describe concepts common to music and other disciplines. They will be involved in limited discussion of various cultures, styles, composers, and historical periods.

Intermediate Level 2-4 (10th Grade) (1 credit)

Students in the tenth grade will receive instruction at the Intermediate Level 2-4 and will begin to use more articulations, perform scales and music in more difficult key signatures, demonstrate vibrato, and perform music at an intermediate level of difficulty (VBODA Solo Repertoire, Level 2-4). Ensemble skills will become more developed as students participate in band settings. Students will describe concepts common to music and other disciplines and will be involved in discussing various cultures, styles, composers, and historical periods.

Intermediate/Advanced Level 2-5 (11th Grade) (1 credit)

Students in the eleventh grade will receive instruction combining Intermediate and Advanced Levels 2-5. In addition to elements of the Intermediate Level, students at the Advanced Level will participate regularly in a band setting. Technical and expressive skills will increase in difficulty as the student demonstrates a variety of articulations, positions, alternate fingerings, and vibrato while playing the required scales, arpeggios, and rudiments in more complex rhythmic patterns. Percussion students will become more proficient in the use of mallet instruments, timpani, and auxiliary instruments.

Advanced/Artist Level 4-6 (12th Grade) (1 credit)

Students in the twelfth grade will receive instruction combining Advanced and Artist Levels 4-6. Students who perform at the Artist Level (VBODA Solo Repertoire, Level 5-6) have built upon the previous skill levels of Beginning, Intermediate, and Advanced. The Artist Level instrumental student will perform, discuss, and critically evaluate characteristics of more elaborate music compositions. Performance of solo literature with the ensemble is highly encouraged at this level of instruction.

Vocal/ Choir Curriculum**Beginning/Intermediate Level (9th Grade) (1 credit)**

Students will receive instruction combining Beginning and Intermediate Levels. The Beginning Level standards emphasize fundamental vocal development, traditional notation, and the introduction to ensemble singing. These standards require performance, creativity, and investigation at a fundamental level. Included are some elements from the Intermediate Level standards designed for students who have achieved competency in beginning vocal/choral skills. Limited opportunities are provided for students to explore the relationship between music and the other fine arts and between music and disciplines outside the arts.

Intermediate Level (10th Grade) (1 credit)

Students will receive instruction at the Intermediate Level. The Intermediate level emphasizes the continuing development of vocal production techniques and ensemble participation. The standards require performance, creativity, and investigation at a level of increased ability, as well as an understanding and application of traditional music notation. These standards are designed for students who have achieved competency in beginning vocal/choral skills. Emphasis is placed on the continuing development of vocal production techniques and ensemble participation. The standards require performance, creativity, and investigation at a level of increased ability, as well as an understanding and application of traditional music notation. Opportunities are continued for students to explore the relationship between music and the other fine arts and between music and disciplines outside of the arts.

Intermediate/Advanced Level (11th Grade) (1 credit)

Students in the eleventh grade will receive instruction combining Intermediate and Advanced Levels. The Intermediate Level standards are designed for students who have achieved competency in beginning vocal/choral skills. Combined with elements of Intermediate Levels is Advanced Level instruction with emphasis on proficiency in ensemble singing and development of competency in individual performance. Singing with refined expressive qualities, the student will perform vocal/choral selections and sight-reading material of increased levels of difficulty. Students will demonstrate limited expanded abilities in performance, creativity, and analytical investigation.

Advanced/Artist Level (12th Grade) (1 credit)

Students in the twelfth grade will receive instruction combining Advanced and Artist. In addition to mastery of elements from the Advanced level, students will receive instruction at the Artist Level where they will acquire refined musicianship skills in individual and ensemble performance. The student will continue to develop the ability to evaluate music performances and articulate preferences and choices through the use of cognitive skills and analytical thinking. Connections with music in the community and the world will be expanded, and an individual performance portfolio will be developed. Competency in solo and/or ensemble singing and the use of foreign languages will assist in preparing the singer for future musical and vocal development and career opportunities. Increasing awareness of the interrelation among music, the other fine arts, and other disciplines will be emphasized.

Physical Education Curriculum**Physical Education and Health (1 credit) (Required in 9th & 10th Grade)**

Physical Education involves various activities that utilize team-building strategies, including cooperation and spatial awareness games. Group games, individual and team sports, as well as physical exercise are emphasized. Students will learn the rules, skills, and strategies of all sports taught, emphasizing important carry-over values. Course of study will vary from quarter to quarter but will always include a variety of activities, games, and sports.

Classroom Driver's Education will be taught in the 2nd half of 10th grade.

Athletic Program

Christ Chapel Academy's athletic program offers physical and team building opportunities that emphasize camaraderie, dedication, and perseverance, as well as spiritual formation and growth. Christ Chapel Academy is a member of the Northern Virginia Independent Athletic Conference (NVIAC). No course credit is given for participation on athletics.

Sports that could be offered if enough student athletes want to participate:

Soccer (Var/MS Boys and Girls)

Basketball (Var/JV/MS Boys and Girls)

Volleyball (Var/JV/MS Girls)

Cross Country (Var/MS Boys and Girls)

Cheerleading (Var/MS Girls)

Flag Football (MS Boys)

Baseball (Var Boys)