2019-20
SECONDARY PROGRAM OF STUDIES
An Academic & Career Planning Guide for Middle and High School

Olwen E. Herron, Ed.D.
Superintendent

www.wjccschools.org
# Table of Contents

**USING THE PROGRAM OF STUDIES** ................................................................. 1
- Virginia's 16 Career Clusters ................................................................. 1
- Academic & Career Plan (ACP) ............................................................... 2

**WJCC SECONDARY SCHOOLS** ................................................................. 4
- General Information & Terminology ......................................................... 4

**MIDDLE SCHOOL PROGRAM** ................................................................. 6
- Academic Support .................................................................................. 6
- Gifted Education ................................................................................... 7
- High School Credit-Bearing Courses Taken in Middle School ............ 7
- Honors Level Coursework ..................................................................... 7
- Math Acceleration .................................................................................. 7
- Virginia State Assessments ................................................................... 7

**HIGH SCHOOL PROGRAM** ................................................................. 8
- Diploma Requirements ................................................................. 8
- Students who entered ninth grade prior to the 2018-2019 school year .... 9
- Students who entered ninth grade in the 2018-2019 school year and thereafter . 11
- Other Diploma Types ........................................................................ 11
- Transfer Student Information ............................................................. 12
- Students Transferring into a Virginia Public School ......................... 13
- Graduation ......................................................................................... 13
- Diploma Seal Recognition ................................................................... 14
- **Earning College Credits In High School** ........................................ 14
- Advanced Placement (AP) ................................................................ 14
- Dual Enrollment ............................................................................... 15
- Concurrent College Enrollment ......................................................... 15
- **Virtual Learning** ............................................................................ 16
- **Commonwealth Innovation (CI) Courses** ........................................ 16
- **Specialty Programs** ........................................................................ 16

**MIDDLE SCHOOL COURSE OFFERINGS & DESCRIPTIONS** .................. 18
- English ............................................................................................... 18
- Mathematics ...................................................................................... 19
- Science ............................................................................................. 20
- Social Studies .................................................................................... 20
- Health & Physical Education ............................................................ 21
- World Languages .............................................................................. 22
- Fine Arts ........................................................................................... 23
- Career and Technical Education (CTE) .............................................. 26

**HIGH SCHOOL COURSE OFFERINGS & DESCRIPTIONS** .................... 27
- English ............................................................................................... 27
- Mathematics ...................................................................................... 33
- Science ............................................................................................. 38
- Social Studies .................................................................................... 42
- World Languages .............................................................................. 46
- Fine Arts ........................................................................................... 52
- Health & Physical Education ............................................................ 58
- Career & Technical Education (CTE) .................................................. 59

**New Horizon’s Career & Technical Education Center (CTEC)** .......... 68
**New Horizon’s Governors School for Science and Technology** ........ 70
Using The Program Of Studies

☐ Select a Career Cluster/Path

• Choose a career cluster/path that closely relates to your interests, skills, values and strengths.
• Explore occupations that relate to your chosen career cluster/path.
• Learn what knowledge, skills and abilities are required.

☐ Familiarize Yourself with Graduation Requirements and Decide Which Diploma You Will Pursue

• Advanced Studies
• Standard

☐ Identify and Choose Courses that Relate to Your Diploma Choice and Career Path

• Formally request these courses during the online course selection process led by your school counselor.
• 7th-12th grade students, along with the support of their school counselor, will create/update their Academic and Career Plan (ACP) to reflect educational and career goals.

Virginia’s 16 Career Clusters

Career Clusters help students investigate careers and design their course of study to advance their career goals. For this reason, Virginia has adopted the nationally accepted structure of career clusters, career pathways and sample career specialties or occupations.

A Career Cluster is a grouping of occupations and broad industries based on commonalities. Within each Career Cluster, there are multiple career pathways that represent the common set of skills and knowledge, both academic and technical, necessary to pursue a full range of career opportunities within that pathway – ranging from entry level to management- and including technical and professional career specialties.

To view individual Virginia Department of Education web pages containing pathways occupational descriptions, data snapshots, employment projections, salary scales and plans of studies for each of the Career Clusters, visit [http://www.doe.virginia.gov/instruction/career_technical/career_clusters/](http://www.doe.virginia.gov/instruction/career_technical/career_clusters/) or click on the Career Cluster below:

- Agriculture, Food & Natural Resources
- Hospitality & Tourism
- Architecture & Construction
- Human Services
- Arts, A/V Technology & Communications
- Information Technology
- Business Management & Administration
- Law, Public Safety, Corrections & Security
- Education & Training
- Manufacturing
- Finance
- Marketing
- Government & Public Administration
- Science, Technology, Engineering & Mathematics
- Health Science
- Transportation, Distribution & Logistics

All Williamsburg-James City County students have access to Virginia Education Wizard ([www.vawizard.org](http://www.vawizard.org)) – a comprehensive career and college planning website that provides students with the ability to assess their skills and explore associated career clusters; find specific occupations in demand, and the top employers within their local area and other regions of Virginia; explore public and private colleges and universities throughout Virginia based on various “fit” factors and save the results; prepare for college admission and attendance; and build resumes and prepare for interviews.

Contact your School Counseling Department for assistance with Individual Student Planning.
CAREER EXPLORATION: Align knowledge, skills and personal interests with career opportunities.

Career Goals:

<table>
<thead>
<tr>
<th>Career Cluster/Pathway 1</th>
<th>Career Cluster/Pathway 2</th>
<th>Career Cluster/Pathway 3</th>
</tr>
</thead>
</table>

Post-Secondary Goals (Check all that apply):

- Community College
- 4-Year College/University
- Professional Training Program/Apprenticeship
- Military
- Part-time Employment
- Full-time Employment
- Other:

Diploma Goals:

- Standard
- Advanced
- Other:

Standardized Test Goals:

- PSAT
- SAT
- ACT

Industry Credentials/Certification

- W!SE Financial Literacy Certification
- Workplace Readiness Skills for the Commonwealth
- Other(s):

Vocational Aptitude Test Goals:

- ASVAB

Goal: Check 7 of the 21 Workplace Readiness Skills for the Commonwealth that you plan to work on in the immediate future. Repeat this each time this plan is reviewed.

- Positive Work Ethic
- Integrity
- Teamwork
- Self-Repensation
- Diversity Awareness
- Conflict Resolution
- Creativity & Resourcefulness
- Speaking & Listening
- Reading & Writing
- Critical Thinking & Problem Solving
- Health & Safety
- Organizations, Systems & Climates
- Lifelong Learning
- Job Acquisition & Advancement
- Time, Task, and Resource Management
- Mathematics
- Job Specific Technologies
- Information Technology
- Internet Use & Security
- Telecommunications
CONTENT KNOWLEDGE: Achieve and apply appropriate academic and technical knowledge

<table>
<thead>
<tr>
<th>Education Levels</th>
<th>Grade</th>
<th>English/Language Arts</th>
<th>Mathematics</th>
<th>Science</th>
<th>Social Studies/Social Sciences</th>
<th>Health/PE, Economics &amp; Personal Finance, Acceleration courses, etc.</th>
<th>World Languages &amp; Electives</th>
<th>Fine Arts and Career &amp; Technical Education (CTE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Middle</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td>Life Science</td>
<td>Health/PE 7 (7121)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td>Physical Science</td>
<td>Health/PE 8 (7210)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secondary</td>
<td>9</td>
<td></td>
<td></td>
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<td></td>
<td>11</td>
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<tr>
<td></td>
<td>12</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

COMMUNITY ENGAGEMENT & CIVIC RESPONSIBILITY: Build connections & value interaction with others as a responsible and responsive citizen.

- Student Clubs/Activities:
- Student Organizations/Groups:
- Work-based Learning Experiences:
- Community Service Experiences:

☐ I will focus on the 5 C’s (critical thinking, creative thinking, collaboration, communication & citizenship) throughout my academic career.
The purpose of the Program of Studies is to describe programs and courses offered in the middle and high schools of Williamsburg-James City County Public Schools (WJCC). Descriptions of courses offered in grades 6-8 and grades 9-12 are grouped by discipline. Grade-level designations represent the grade at which most students take a described course. Exceptions to stated grade levels may be made to meet the educational needs of an individual student. Detailed information is available in the school counseling department at each middle and high school.

Families are asked to review this Program of Studies together. Our hope is that the Program of Studies will generate discussions about types of diplomas, career opportunities and preparation, post-secondary education and training requirements, and the role of educational decisions on future opportunities.

General Information & Terminology

Academic and Career Plan — The Academic and Career Plan (ACP) is a personal learning plan that aligns educational and career goals with a student's course of study. Students begin developing their own ACP in middle school with their school counselor and complete their plan by the end of their seventh grade year. Students continue reviewing and updating their ACP annually.

Career and Technical Education (CTE) – Within WJCC there are many CTE courses offered for high school credit with concentrations that lead to CTE ‘completer’ status. Meeting the needs of students as they prepare to work in the 21st century are strands in Business & Information Technology, Career Connections, Family & Consumer Sciences, Health & Medical Sciences, Marketing Education, Technology Education, and Computer & Information Science.

Course Selection/Registration Process – The annual course selection process is simple, but important:

Prior to and during the annual online course selection period families are invited to attend course planning nights and student planning meetings with their child’s school counselor. Students and families should carefully consider diploma requirements; academic achievement; educational, career and personal goals; teacher/counselor recommendations; skills, and interests. Through thoughtful course selection, a student should be able to pursue both education and career goals. Once the annual online course selection period closes, students will need to wait until the next open Drop/Add period to request changes. Specific scheduling circumstances may prevent requests for changes to be completed. It is, therefore, important to select courses during the online course selection period with the utmost care and students should intend to complete all courses selected. Families are encouraged to contact their student’s school counselor, student advancement coach and/or teachers to discuss educational and career goals, course selections and student academic achievement. School counselors are your ultimate partner in individual student planning.

Drop/Add – The period of time in which all students seeking a schedule change may submit a request to drop a class provided he/she add another class in order to maintain a full class load. Requests are approved on a case-by-case basis. Some requests, such as courses requested by students during the online course selection period and received by students on their schedules, may not be approved due to specific scheduling circumstances. Drop requests that place the student with less than a full class load will not be honored.

Early Graduation – Students who plan to graduate early must receive permission from an administrator and plan an appropriate program with their counselor.

Enrollment – Students shall not be allowed to enroll if they have passed their 20th birthday on or before August 1 of a school year. Students who are receiving Special Education services may attend through age 21 if stipulated in their individualized education plan (IEP).
**Fees** – Student fees may be charged in accordance with state and federal laws. The student fee schedule is updated annually, and all courses that require a fee are clearly marked throughout the Program of Studies. Fees may be reduced or waived for economically disadvantaged students and students whose families are undergoing economic hardships. Fees may be waived or reduced for AP exams, PSAT, SAT, and the ACT.

**Grade Point Average (GPA)/Class Rank** – The Grade Point Average (GPA) for students is based on the sum of quality points for grades in completed courses divided by the number of credits attempted. Students are ranked in their class by their GPA.

**Grading Scale/Weighting** – Courses taught in WJCC middle and high schools are assigned grade point values as follows:

<table>
<thead>
<tr>
<th>Number Grade</th>
<th>Letter Grade</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100</td>
<td>A</td>
<td>4 points</td>
</tr>
<tr>
<td>80-89</td>
<td>B</td>
<td>3 points</td>
</tr>
<tr>
<td>70-79</td>
<td>C</td>
<td>2 points</td>
</tr>
<tr>
<td>60-69</td>
<td>D</td>
<td>1 point</td>
</tr>
<tr>
<td>59 and below</td>
<td>F</td>
<td>0 points</td>
</tr>
</tbody>
</table>

Designated high school courses for which a student earns an A, B, or C, because of the level of difficulty and time required for mastery, will carry an additional weight of 1 quality point when final Grade Point Averages (GPAs) are computed. Weighted courses will include all Advanced Placement (AP) courses, courses taught at the Governor’s School for Science and Technology, and concurrent college courses taken in accordance with WJCC guidelines on Concurrent College Enrollment (see page 15).

**Promotion** – Just as students are required to earn a certain number of credits to meet graduation and diploma requirements, they must accumulate a certain number of credits in each grade to be promoted to the next grade level.

- **High school students who entered the ninth grade prior to the 2018-2019 school year** matriculate to grade 10 if they have 6 credits, grade 11 with 14 credits, and to grade 12 with 21 credits.
- **High school students who entered the ninth grade in the 2018-2019 school year and thereafter** matriculate to grade 10 if they have 5 credits, grade 11 with 11 credits, and grade 12 with 15 credits.

**Repeating a Class for Strength** – Students may re-enroll in a sequential class if they have a parent’s signed request to re-take the class. Courses originally taken through the Virtual Learning Program will be retaken in the traditional setting. The grades for both enrollments are calculated into the GPA, and the credit is applied evenly between both enrollments. Both grades become a permanent part of the student’s transcript. Students may only repeat one course per semester. Virginia High School League Rules regarding “audits” apply for those students who are athletes.

**Sequenced Classes** – Students may request more than one math, science, world language, or health/PE classes during the online course request period. Such requests will be granted on a space-available basis with preference given to seniors, juniors, and sophomores in that order. This does not apply to courses designated as electives or to students who need to make up a required course that they have failed. Every effort will be made to schedule language courses in consecutive semesters. Full acceleration may be allowed if scheduling and space permit. Students who fail will be able to repeat in the next semester on a space-available basis.

**Sequential Electives** – Students who wish to receive a Standard Diploma must successfully complete two sequential electives. These may be in any discipline as long as the courses are not specifically required for graduation. Courses used to satisfy the one unit of credit in a fine arts or career and technical education course may be used to partially satisfy the requirement. While an exploratory course followed by an introductory course may not be used to satisfy this requirement, an introductory course followed by another level of the same course of study may be used. These do not have to be taken in consecutive years.

**Shared Courses** – In addition to low-enrollment courses, courses that are only offered at one location may be considered “shared” and may be available to students from all three high schools at a designated location.

**Standard Credit** – Credit awarded for a course in which the student successfully completes 140 clock hours of instruction and requirements of the course. Local school boards may develop alternatives to the requirement for 140 clock hours of instruction as provided in 8VAC20-131-110 and in accordance with board guidelines.
**Standards of Learning Tests (SOL)** – SOL tests are End-Of-Course (EOC) tests that are required by the Virginia Department of Education to verify attainment of knowledge and skills in specific English, math, science and social studies courses.

**Verified Credit** – *For students who entered the ninth grade prior to the 2018-2019 school year*, a verified unit of credit for graduation is based on successful completion of a course and achieving a passing score on an End-Of-Course (EOC) Standards of Learning (SOL) exam or an additional test as approved by the Board of Education.

*For students who enter the ninth grade during the 2018-2019 school year or thereafter*, a verified unit of credit for graduation is a credit awarded for a course in which the student earns a standard unit of credit and: (1) achieves a passing score on a corresponding End-Of-Course SOL test; or (2) achieves a passing score on an additional test approved by the board as part of the Virginia assessment program; or (3) meets the criteria for the receipt of a locally awarded verified credit conferred in accordance with board criteria and guidelines as provided in 8VAC20-131-110.B.3 when the student has not passed a corresponding SOL test in English, mathematics, laboratory science, or social studies; or (4) meets the criteria for the receipt of a verified credit in history and social studies by demonstrating mastery of the content of the associated course on authentic performance assessments, as provided in 8VAC20-131-110.B.4; or (5) meets the criteria for the receipt of a verified credit in English (writing) by demonstrating mastery of the content of the associated course on authentic performance assessments, as provided in 8VAC20-131-110.B.5. No more than one locally awarded verified credit may be used to satisfy these requirements except as provided in 8VAC20-131-110.B.4 regarding credit accommodations for students with disabilities.

**Withdrawing from a Course** – Students who request to withdraw from a high school credit-bearing course after the first interim will receive a Withdraw Pass (WP) or a Withdraw Fail (WF), depending on their grade in the class at the time of withdrawal. Any withdrawals after the first interim must be approved by an administrator. Withdrawals will be considered in extenuating circumstances and on a case-by-case basis.

**Work-Based Learning (WBL) Method of Instruction** – When available, students may have the opportunity to participate in a variety of structured career exploration and workplace skill-building experiences such as job shadowing, mentorships, internships, service learning, clinical experiences, apprenticeships and Cooperative Education.

If participating in the Cooperative Education work-based learning method of instruction through a specific CTE course, the teacher-coordinator develops an individualized training plan with the student and training sponsor that contributes directly to the student’s career objectives, learning experiences, and employability. Students must be 16 years of age and have parent permission to participate. Students attend class part of the day and work in an approved business or service-oriented work environment part of the day. The number of work hours required are between 11 and 15 hours per week, with a minimum of 396 hours per school year. *Credit earned is based upon the student’s satisfactory employment throughout the entire school year.*

**Middle School Program**

The **sixth** grade instructional program emphasizes skills and knowledge closely tied to the Virginia Standards of Learning. The required courses are English/Language Arts, mathematics, science, social studies, and health and physical education. Students also have the opportunity to choose electives from a number of music courses, an introductory world language course, or an exploratory wheel, which includes fine arts or Career and Technical Education courses.

The **seventh** grade instructional program builds upon sixth grade knowledge and skills and is closely aligned with the Virginia Standards of Learning. Specific course availability may depend upon enrollment. Required courses are English/Language Arts, mathematics, life science, social studies, and health and physical education. Students may choose electives in the areas of Career and Technical Education, music, art, theatre and/or world languages.

The **eighth** grade instructional program reflects challenging course work that prepares students for high school and emphasizes the skills and knowledge required for mastery of the Virginia Standards of Learning. Required courses are English/Language Arts, mathematics, physical science, world history, and health and physical education. Students may choose electives in the areas of Career and Technical Education, music, art, theatre and/or world languages.

**Specific course availability depends upon enrollment numbers. Not all electives may be available every year. Students are expected to remain in the elective course(s) they choose for the entire year.**

**Academic Support**

Academic Support programs provide additional instruction for students who have difficulty completing grade-level objectives. Academic support programs provide students with modified instruction, differentiated teaching strategies, and additional time to apply basic skills. The instruction provides frequent re-teaching of objectives, additional guided practice, and opportunities...
for hands-on activities that reinforce objectives. The selection of appropriate and interesting content with an emphasis on variety of materials is vital. The duration of an individual’s support program is based upon the individual's progress. The amount of time per lesson and number of sessions is based upon the needs of the student.

**Gifted Education**

The Gifted Education Program serves identified academically gifted students in specific content areas of study. The student’s academic, social, and emotional needs are addressed in mathematics, English and social studies classes where differentiated curriculum and instructional strategies are implemented. Students are grouped in English and social studies classes where the curriculum is integrated, accelerated, and rigorous. The WJCC middle school program for academically gifted students serves as a bridge between the elementary and high school programs during a time of rapid change in academic, emotional, social, and physical development.

**High School Credit-Bearing Courses Taken in Middle School**

The following courses are offered in middle school for high school credit (consult with a counselor concerning prerequisites for these courses):

- Algebra I
- Geometry
- World Language

The *Regulations Establishing Standards of Accrediting Public Schools in Virginia* have provided parents with the option of requesting that a course (grade and associated high school credit) be expunged from a student's transcript for any high school credit-bearing course taken in middle school. If a student has a course expunged from the transcript in a high school credit-bearing Algebra or Geometry course, the course must be repeated for credit the following year in order to meet graduation requirements. If a student has a course expunged from the transcript in a high school credit-bearing World Language course, the course may be repeated for credit. Teachers and counselors will review the process with all students toward the end of the school year and expungement forms will be mailed home with final report cards. The decision to have a grade expunged is binding and no grade or associated credit will be awarded once a request has been granted. **The deadline to request a grade be expunged is August 1 of the same year in which the high school credit-bearing course was taken in middle school.**

Students who drop or have failed any part of a high school credit-bearing course and who are planning to retake the course the following year must register for the entire course. Credit is only awarded upon successful completion of the high school credit-bearing course.

**Honors Level Coursework**

The process for middle school student placement into Honor’s English 7 or Honor’s English 8 will be communicated to students and families annually.

**Math Acceleration**

In order for a student to accelerate through “Pre-Algebra 6” (course # 3110-06) or “Pre-Algebra 8” (course # 3112-08) to the next course, the student must demonstrate mastery of the content that they will miss. The student’s level of mastery is determined through the completion of a 50-question, free-response, timed, End-of-Course (EOC) assessment. A student earns a point for each correct answer and a point for written work or explanations that demonstrate an understanding of the content. Students must earn 85 points in order to demonstrate mastery and proceed to the next course in the sequence. All EOC tests cover the VDOE Mathematics SOL Frameworks. Administration of these acceleration assessments occur at each middle school during the first two weeks of June and the first two weeks of September during school hours. Please contact your child’s school counselor for more information regarding this process.

**Virginia State Assessments**

Sixth and seventh grade students will take Virginia Standards of Learning (SOL) tests for reading and mathematics. Eighth grade students take Virginia SOL tests for reading, writing, mathematics, civics, and science (science covers material from grades 6-8) in the spring. In addition, Virginia SOL tests are taken by students who are completing Algebra I and/or Geometry. By passing both the course and the SOL test in a high school credit-bearing course, the student shall earn one standard and one verified credit per course toward graduation.
High School Program

The requirements for a student to earn a diploma and graduate from a Virginia high school shall be those in effect when that student enters the ninth grade for the first time.

Diploma Requirements

Effective with students who entered ninth grade for the first time prior to the 2018-2019 school year.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Advanced Studies Diploma</th>
<th>Standard Diploma</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard Credits</td>
<td>Verified Credits</td>
</tr>
<tr>
<td><strong>English</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reading &amp; Writing</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced: Courses shall include four selections from among Algebra I, Geometry, Algebra II, and other math courses above the level of Algebra II.</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Standard: Three course selections from among Algebra I, Geometry, Algebra Functions and Data Analysis, Algebra II, or other course above Algebra II.</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td><strong>Laboratory Science</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced: Courses shall include selections from at least three different disciplines from Earth Science, Biology, Chemistry, or Physics.</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Standard: Courses shall include selections from at least two different disciplines from Earth Science, Biology, Chemistry, or Physics.</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td><strong>Social Studies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Courses shall include US and VA History, US and VA Government, and two courses in world studies.</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td><strong>World Language</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced: Courses shall include three years of one language or two years of two languages.</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td><strong>Health &amp; Physical Education</strong></td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>Economics &amp; Personal Finance</strong></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Meets Virtual Course requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fine Arts</strong></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td><strong>Career &amp; Technical Education</strong></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Industry credentials available</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Standard: Courses shall include two sequential electives.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Student Selected Test</strong></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits Required:</strong></td>
<td>28</td>
<td>9</td>
</tr>
</tbody>
</table>
Additional graduation requirements for students who entered ninth grade prior to the 2018-2019 school year

- Earn a board-approved Career and Technical Education credential to graduate with a Standard Diploma; and
- successfully complete one virtual course, which may be non-credit bearing; and
- complete training in emergency first aid, cardiopulmonary resuscitation, and the use of automated external defibrillators, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation.

Students With Disabilities

The Board of Education has approved Standard Diploma Credit Accommodations for Students with Disabilities to provide alternatives for meeting the requirements for a Standard Diploma. Students with an Individual Education Plan (IEP) or a 504 Plan that meet specific criteria may be eligible to receive credit accommodations for the Standard Diploma. This is determined by the student’s IEP or 504 committee/team at any point after the student’s eighth grade year.

Additional Notes

Students who complete a Career and Technical Education program sequence and pass an examination or occupational competency assessment in a Career and Technical Education field that confers certification or an occupational competency credential from a recognized industry, or trade or professional association or acquires a professional license in a Career and Technical Education field from the Commonwealth of Virginia may substitute the certification, competency credential or license for (1) the student selected verified credit and (2) either a science or history and social science verified credit when the certification, license or credential confers more than one verified credit. The examination or occupational competency assessment must be approved by the Board of Education as an additional test to verify student achievement.
Effective with students who entered ninth grade for the first time in the 2018-2019 school year and thereafter.

### Advanced Studies Diploma

<table>
<thead>
<tr>
<th>Subject</th>
<th>Standard Credits</th>
<th>Verified Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reading and writing</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Courses shall include at least three selections from among Algebra I, Geometry, Algebra II, or other math courses above the level of Algebra II. A Computer Science course credit may be considered a mathematics credit.</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td><strong>Laboratory Science</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Courses shall include selections from at least three different disciplines from among Earth Science, Biology, Chemistry, or Physics. A Computer Science course credit may be considered a laboratory science credit.</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td><strong>Social Studies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Courses shall include VA and US History, VA and US Government, and two courses in world studies.</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td><strong>World Language</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Courses shall include three years of one language or two years of two languages.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Health &amp; Physical Education</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><strong>Economics &amp; Personal Finance</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Meets Virtual Course requirement</em></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td><strong>Fine Arts or Career &amp; Technical Education</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Computer Science course credit may be considered a Career and Technical Education credit.</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Courses shall include at least two sequential electives</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits Required:</strong></td>
<td><strong>26</strong></td>
<td><strong>5</strong></td>
</tr>
</tbody>
</table>

### Standard Diploma

<table>
<thead>
<tr>
<th>Subject</th>
<th>Standard Credits</th>
<th>Verified Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reading and writing</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Courses shall include at least two selections from among Algebra I, Geometry, Algebra, Functions and Data Analysis, or Algebra II. A Computer Science course credit may be considered a mathematics credit.</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td><strong>Laboratory Science</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Courses shall include selections from at least two different disciplines from among Earth Science, Biology, Chemistry, or Physics. A Computer Science course credit may be considered a laboratory science credit.</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td><strong>Social Studies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Courses shall include VA and US History, VA and US Government, and one course in world studies.</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td><strong>Health &amp; Physical Education</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><strong>Economics &amp; Personal Finance</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Meets Virtual Course requirement</em></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td><strong>World Language, Fine Arts or Career &amp; Technical Education</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Courses shall include one credit in fine or performing arts or Career and Technical Education. A Computer Science course credit may be considered a Career and Technical Education course.</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Courses shall include at least two sequential electives</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits Required:</strong></td>
<td><strong>22</strong></td>
<td><strong>5</strong></td>
</tr>
</tbody>
</table>
Additional graduation requirements for students who entered ninth grade in the 2018-2019 school year and thereafter

- Complete an Advanced Placement (AP), honors course, or earn a board-approved Career and Technical Education credential; and
- successfully complete one virtual course, which may be non-credit bearing; and
- complete training in emergency first aid, cardiopulmonary resuscitation, and the use of automated external defibrillators, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation; and
- demonstrate foundational skills in the 5 C’s: critical thinking, creative thinking, collaboration, communication, and citizenship in accordance with the Profile of a Virginia Graduate approved by the board.

Students With Disabilities

The Board of Education has approved Standard Diploma Credit Accommodations for students with disabilities to provide alternatives for meeting the requirements for a Standard Diploma. Students with an Individual Education Plan (IEP) or a 504 Plan that meet specific criteria may be eligible to receive credit accommodations for the Standard Diploma. This is determined by the student’s IEP or 504 committee/team at any point after the student’s eighth grade year.

Additional Notes

Students who complete a Career and Technical Education program sequence and pass an examination or occupational competency assessment in a Career and Technical Education field that confers certification or an occupational competency credential from a recognized industry, or trade or professional association, or acquires a professional license in a Career and Technical Education field from the Commonwealth of Virginia may substitute the certification, competency credential, or license for either a science or social studies verified credit when the certification, license, or credential confers more than one verified credit. The examination or occupational competency assessment must be approved by the board as an additional test to verify student achievement.

Other Diploma Types

**Virginia Applied Studies Diploma**

Students with disabilities who complete the requirements set forth in their Individualized Educational Program (IEP) and do not meet the requirements for other diplomas shall be awarded Applied Studies diploma in accordance with state and federal laws and regulations regarding special education.

Students who pursue an Applied Studies Diploma shall be allowed to pursue a Standard Diploma or Advanced Studies Diploma at any time during high school. Such students shall not be excluded from courses or tests required to earn these diplomas.

The School Board will notify parents of qualified students with disabilities who have an IEP and who fail to meet the requirements for graduation of the right to a free and appropriate education to age 21, inclusive, pursuant to Va. Code § 22.1-213 et seq.

**Virginia General Achievement Adult High School Diploma**

In order to be eligible for a General Achievement Adult High School Diploma, a candidate must be at least 18 years of age and not enrolled in a public school or not otherwise meet the compulsory school attendance requirements of Va. Code § 22.1-254. Candidates must earn 20 standard units of credit including the following:

<table>
<thead>
<tr>
<th>Standard Units of Credits Required</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Science</td>
<td>2</td>
</tr>
<tr>
<td>History and Social Science</td>
<td>2</td>
</tr>
<tr>
<td>VA &amp; US History</td>
<td></td>
</tr>
<tr>
<td>VA &amp; US Government</td>
<td></td>
</tr>
<tr>
<td>Electives (including two sequential electives)</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>20</td>
</tr>
</tbody>
</table>
The required standard units of credit may be earned by enrolling in:

- a public school, if the candidate meets the age requirements;
- a community college or other institution of higher education;
- an adult high school program; or
- a correspondence, distance learning, and/or online course.

Candidates for a General Achievement Diploma must achieve a passing score on the GED Examination.

**Virginia General Educational Development (GED) Certificate**

The Board of Education has established a program of testing for High School Equivalency through the General Educational Development (GED). A GED Certificate may be earned through the Individual Student Alternative Education/GED Program offered through WJCC. The following may participate in the testing program:

1. Students ages 16 to 18 enrolled in high school programs who are having difficulty finding success in a regular classroom environment.
2. Persons 16 years of age or older who have been instructed by their parents in their home pursuant to Va. Code § 22.1-254.1 and who have completed such home school instruction;
3. Persons who have been excused from school attendance pursuant to subsections B and C of Va. Code § 22.1-254;
4. Persons for whom an individual student alternative education plan has been granted pursuant to subsection D of Va. Code § 22.1-254; and
5. Persons 16 through 18 years of age who are housed in adult correctional facilities and who are actively pursuing a GED certificate but who are not enrolled in an ISAEP pursuant to subsection D of Va. Code § 22.1-254.

Students must have a 7.5 grade equivalent on a standardized reading achievement and passing scores on each of the pretests. Under no circumstances shall persons under the age of 16 be eligible for the testing program.

**Transfer Student Information**

**Academic Credits:** WJCC accepts credits towards graduation received from all other Virginia public schools; other accredited secondary schools, including summer school; Virtual Virginia; Virginia approved Multi-Division Online Providers (MOP); and non-public schools that have received accreditation through a Virginia Council for Private Education (VCPE) Approved State Recognized Accrediting Member. Credits will be awarded based on the student’s time in class and grade given by the departing school. All letter grades will be entered into the student’s transcript. Numerical grades will only be used in accordance with WJCC grading scale in the event no grading scale is provided by the departing school. The following courses receiving a weight from the departing school will transfer the weight with the credit: AP courses, Cambridge courses, IB courses, and concurrent college courses meeting WJCC criteria (see page 15).

Students entering WJCC secondary schools from a non-accredited school will have credits reviewed and awarded on a case-by-case basis.

**Graduation Requirements:** All students, regardless of grade level, must take Economics and Personal Finance as well as a virtual course in order to graduate. Economics and Personal Finance can be counted for both of these requirements.

Students transferring above the tenth grade from schools or other education programs that do not require or give credit for health and physical education shall not be required to take these courses to meet graduation requirements.

*Transfer students who entered the ninth grade prior to the 2018-2019 school year* are required to earn 28 standard credits to graduate for both Advanced Studies and Standard Diploma types. In the event a student cannot meet this requirement due to the lack of available credit opportunities at their previous school, a student may be prorated for graduation depending on their transfer year. Prorated credits may not go below 22 for a Standard and 26 for an Advanced Studies Diploma.

*Transfer students who entered ninth grade in the 2018-2019 school year* or thereafter are required to earn 22 standard credits for the Standard Diploma and 26 standard credits for the Advanced Studies Diploma.

**Verified Credits:** Students transferring from another Virginia public school must take and pass a specific number of VA Standards of Learning (SOL) assessments in order to graduate with a desired diploma type. Students transferring into the Virginia public school system from other than a Virginia public school may be awarded a verified credit toward graduation in a course previously completed if one of the following tests from the sending state, country, private school, or Department of Defense Educational Activity school was completed and can be verified: (1) End-of-Course tests required for graduation by the sending state; or (2) exit tests required for graduation by the sending state; or (3) national norm-referenced achievement tests required by the sending state with a “cut score” or passing score for the purpose of graduation, if that test includes some
content in a subject for which a verified credit may be awarded. Any substitute test approved by the board for verified credit should be accepted in lieu of the applicable SOL assessment if the student has earned the applicable standard credit.

**Students Transferring into a Virginia Public School**

**Effective with students who entered ninth grade for the first time prior to the 2018-2019 school year:**

**Beginning** = First 20 hours of instruction • **During** = After the first 20 hours of instruction

<table>
<thead>
<tr>
<th>Verified Course Credits</th>
<th>During Ninth Grade or Beginning of Tenth Grade</th>
<th>During Tenth Grade or Beginning of Eleventh Grade</th>
<th>During Eleventh Grade or Beginning of Twelfth Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard</td>
<td>Advanced</td>
<td>Standard</td>
</tr>
<tr>
<td>English</td>
<td>2</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Science</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>History &amp; Social Science</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Student Selected</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**During Twelfth Grade** – Students will be given every opportunity to earn a Virginia diploma; if this is not possible, the school division will arrange to have the previous school award the diploma, or seek a waiver of the verified credit requirement.

---

**Effective with students who entered ninth grade for the first time in the 2018-2019 school year and thereafter:**

**Beginning** = First 20 hours of instruction • **During** = After the first 20 hours of instruction

<table>
<thead>
<tr>
<th>Verified Course Credits</th>
<th>Beginning of Ninth Grade – Beginning of Eleventh Grade</th>
<th>During Eleventh Grade – Beginning of Twelfth Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard &amp; Advanced</td>
<td>Standard &amp; Advanced</td>
</tr>
<tr>
<td>English</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Science</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>History &amp; Social Science</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**During Twelfth Grade** - Students will be given every opportunity to earn a Virginia diploma; if this is not possible, the school division will arrange to have the previous school award the diploma, or seek a waiver of the verified credit requirement.

**Graduation**

**Superintendent’s Certification for Graduation Eligibility**

Students will be certified for graduation when they have completed the graduation requirements of WJCC and/or program for which diplomas are given as prescribed by the Virginia Board of Education. Students must meet the appropriate verified credit requirements set forth by the Virginia Board of Education and WJCC Public Schools. All students will be reviewed for on-time graduation expectations each semester. Approved summer school courses may be applied toward meeting graduation requirements. The review of all candidates will occur by the Superintendent, or designee, and follow the Commonwealth’s expectations for the awarding of a diploma. The Superintendent, or designee, is responsible for certifying eligibility for graduation in accordance with minimum standards established by the Commonwealth of Virginia. Student progress shall be reviewed by the Superintendent or designee to determine whether graduation requirements have been met.
Diploma Seal Recognition

The Standards for Accrediting Schools in Virginia establish high school graduation requirements and certain diploma seal recognitions. In addition, WJCC offers the Honors Program Seal.

**State Board of Education Seal** – Students who earn a Standard Diploma with an average grade of “A” or better will receive the State Board of Education Seal on the diploma.

**Governor’s Seal** – Students who earn an Advanced Studies Diploma with an average grade of “B” or better and complete at least one Advanced Placement (AP) or college level course for credit will receive the Governor’s Seal on the diploma.

**State Board of Education’s Career & Technical Education Seal** – Students who earn a Standard or Advanced Studies Diploma and complete a prescribed sequence of courses in a career/technical education concentration AND maintain a “B” average in those courses, OR pass a certification examination, OR acquire a professional license will receive the State Board of Education Career & Technical Education Seal on the diploma.

**State Board of Education’s Advanced Mathematics & Technology Seal** – Students who earn a Standard or Advanced Studies Diploma and satisfy all of the mathematics requirements for the Advanced Studies Diploma and maintain a “B” average in those courses AND EITHER pass a certification examination from a recognized industry, trade or professional organization, or acquire a professional license in a career/technical area, OR pass an exam approved by the Board that confers college-level credit in a technology or computer science area will receive the State Board of Education Seal of Advanced Mathematics & Technology on the diploma.

**State Board of Education’s Excellence in Civics Education Seal** – Students who earn a Standard or an Advanced Studies Diploma AND complete Virginia and U.S. History and Virginia and U.S. Government with a grade of “B” or higher AND complete 50 hours of voluntary participation in community service or extracurricular activities (e.g., volunteering for an organization that provides services to the poor, sick, less fortunate, OR participating in Boy Scouts, Girl Scouts, and similar organizations; in political campaigns or government internships, Boys State, Girls State, Model General Assembly; and/or in school-sponsored extracurricular activities that have a civic focus), OR enlisting in the United States military prior to graduation and have good attendance with no disciplinary infractions as determined by local school board policy receive the State Board of Education Seal for Excellence in Civics Education on the diploma.

**State Board of Education’s Biliteracy Seal** – Students who earn a Board of Education-approved diploma and (1) pass all required End-of-Course Assessments in English reading and writing at the proficient or higher level; and (2) be proficient at the intermediate-mid level or higher in one or more languages other than English, as demonstrated through an assessment from a list approved by the Superintendent of Public Instruction are eligible to apply for and receive the State Board of Education’s Biliteracy Seal on their diploma.

**Williamsburg-James City County Public Schools Honors Seal** – Students who successfully complete the academic requirements, community service project, and individual honors project shall receive the WJCC Honors Seal.

Williamsburg-James City County Public Schools expects that students enrolled in a WJCC high school for at least the last two years of high school will successfully complete course work in preparation for post-secondary education and/or be a CTE Completer and earn a diploma.

Earning College Credits In High School

WJCC provides college readiness curriculum to students through standard and honors level courses. In addition, students may take advantage of opportunities to earn college credit while enrolled in high school through Advanced Placement (AP), Dual Enrollment, and Concurrent College Enrollment and through select courses taken at New Horizon’s Career & Technical Education Center and New Horizon’s Governors School for Science and Technology.

**Advanced Placement (AP)**

The Advanced Placement (AP) program provides rigorous academic coursework in the major subject fields, with course content designed at the college level. AP courses are open to any student who is interested in academic rigor and meet course pre-requisites.

Credit Earned: Students earn a high school credit* by passing the AP course. Students may also earn college credit by taking the AP exam and earning a specific score that is determined by each individual college.

- The AP transfer policy for four-year Virginia public colleges and universities can be viewed at the following link: http://
• The AP transfer policy for Thomas Nelson Community College can be viewed at the following link: https://tncc.edu/sites/default/files/content-documents/Advanced-Placement-AP.pdf
• For information on other colleges or universities, please check their websites.

**Dual Enrollment**

Dual Enrollment allows qualified students to enroll in college coursework while still in high school through a division-wide agreement with Thomas Nelson Community College (TNCC). Dual Enrollment courses become part of the permanent college transcript, and credit for dual enrollment courses is generally accepted at most Virginia private and public colleges. Students are responsible for verifying the transfer of college credits between TNCC and other colleges and universities as policies may vary. In order to complete Dual Enrollment coursework, students must: (1) Meet course prerequisites, and; (2) apply to TNCC and receive a TNCC student ID number, and; (3) successfully complete college placement tests or approved alternate assessment, and; (4) complete registration form with parent and principal signature.

In WJCC, students may participate in Dual Enrollment in one of two ways

1. **In-School Dual Enrollment** – Eligible high school juniors and seniors take dual enrollment courses at the high school taught by a college-qualified WJCC teacher. WJCC pays student tuition and fees. Courses offered are limited based on instructor credentialing, existing course offerings, and student interest.

   Credit Earned: Students earn a high school credit by passing the dual enrollment course, and 3 college credits from TNCC with transferability by earning a C or higher in the dual enrollment course.

2. **Early College Program** – Eligible seniors complete all high school diploma requirements, including College Comp I and II with a C or higher, by the end of the first semester of their senior year and then attend TNCC as a full-time student during the second semester. Program enrollment capacities and any financial contributions toward the cost of college credit hours are set annually by WJCC, and students are responsible for all fees associated with textbook and materials.

   Credit Earned: Students earn 1 high school credit for passing College Comp I and II, and 6 college credits from TNCC with transferability by earning a C or higher in College Comp I and II (English 111 & 112). During the second semester, students earn 3 college credits from TNCC with transferability for each course they complete on the TNCC campus with a C or higher.

To learn about current Dual Enrollment options at your school, please contact your school counselor.

**Concurrent College Enrollment**

Eligible high school juniors or seniors who have exhausted the available high school course offerings in a particular subject area may choose to take a 3-credit course from a college or university in that subject area for both high school and college credit. Students who wish to take a concurrent college course must seek permission from their high school prior to enrolling, and are responsible for completing all action items related to college course registration. These courses become part of the permanent college transcript, and students assume all costs associated with the course.

Credit Earned: Students earn a high school credit* for passing the course taken from a college or university (see qualifiers above) by supplying an official college transcript prior to the end of the high school semester in which the concurrent college course is taken. Students taking a concurrent college course as part of the full-enrollment requirement who (1) drop the course and/or (2) do not supply an official transcript on time will receive an “F” on the high school transcript for that course. College credit earned is determined by each individual college and university.

**New Horizons Career & Technical Education Center** and **New Horizons Governor’s School for Science & Technology** – please see page 68-71.

*All Advanced Placement (AP) courses and one Concurrent College Course per semester will be granted weight when calculating the final GPA. Concurrent College Courses excluded from weighting include all introductory courses and world languages that do not exceed the rigor of AP.*
Virtual Learning

Virtual learning is a teaching and learning approach used in WJCC Public Schools where education takes place, at least in part, using computers, the Internet, and other technologies. Students can experience Virtual Learning in blended courses at the school or through a completely online experience. All virtual learning experiences take place with instruction from a licensed teacher.

WJCC's Virtual Learning Program (VLP) includes select courses delivered entirely online for first time credit and is available for students with scheduling conflicts or other specific scheduling needs. Depending on the course, class schedule, and method of delivery, students may work with online content during the school day or from a computer outside the building. Student work is completed through the WJCC-selected Learning Management System except for some labs, final exams, and End-of-Course SOL assessments, if applicable. A licensed teacher will facilitate all courses offered through the WJCC VLP. These courses are asynchronous, but not self-paced. Teachers provide structure and pacing guides for each course offering. Students desiring to work outside of school must provide their own reliable computer and internet access.

Counselors will discuss all current learning opportunities during individual student planning meetings with students. To determine if a student has the skills necessary to be successful in the virtual learning environment, he/she will take the Test of Online Learning Success, http://cs.txwes.edu/tools/. Results of this survey must be shared with the school counselor and will be taken into consideration when enrollment decisions are made. For more information about the WJCC VLP, visit https://wjccschools.org/ourschools/virtual-learning-program/.

Virtual Virginia courses are available to WJCC students at no additional charge during the regular school year when courses are not offered face-to-face or in cases of extreme scheduling conflicts. Students assume all costs associated with Virtual Virginia courses taken over the summer session. For a full listing of Virtual Virginia courses and additional information, visit http://www.virtualvirginia.org/. Please work directly with your school counselor to register for any Virtual Virginia course.

Multi-Division Online Providers (MOP) – When appropriate, WJCC awards transfer credits/grades for online coursework from VDOE approved Multi-Division Online Providers (MOP). In order to locate an online course from an outside provider that will transfer, please visit www.learn24va.org/ and confirm transferability with your school counselor.

Commonwealth Innovation (CI) Courses

Commonwealth Innovation (CI) courses provide students with the opportunity to access traditional coursework by way of innovative teaching and learning approaches. Students who choose to participate in any of the CI courses offered at their high school will work in a collaborative setting that focuses on project-based and/or blended learning opportunities for each student. Some instruction will occur in a digital environment. Our hope is that every student attending a high school in WJCC Schools will enroll in at least one CI experience. CI offerings are as follows:

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Course Number</th>
<th>Recommended Grade Level</th>
<th>Page Number(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI: English 9*, World History II, and Speech</td>
<td>981CI</td>
<td>9</td>
<td>28, 42</td>
</tr>
<tr>
<td>CI: English 10* and Principles of Business &amp; Marketing</td>
<td>985CI</td>
<td>10</td>
<td>28, 64</td>
</tr>
<tr>
<td>CI: World Geography and Probability &amp; Statistics</td>
<td>982CI</td>
<td>10</td>
<td>37, 43</td>
</tr>
<tr>
<td>CI: Virginia &amp; U.S. History and English 11*</td>
<td>987CI</td>
<td>11</td>
<td>29, 43</td>
</tr>
<tr>
<td>CI: Algebra, Functions, &amp; Data Analysis (AFDA) and Physics</td>
<td>984CI</td>
<td>11</td>
<td>35, 41</td>
</tr>
<tr>
<td>CI: Biology II Anatomy &amp; Physiology and Drawing</td>
<td>988CI</td>
<td>10-12</td>
<td>39, 53</td>
</tr>
<tr>
<td>CI: Virginia &amp; U.S. Government, Law &amp; Society, and Discrete Math</td>
<td>990CI</td>
<td>12</td>
<td>36, 44</td>
</tr>
</tbody>
</table>

*Honors extension available

Specialty Programs

Early College Program with Thomas Nelson Community College (TNCC) – This program is offered to qualified high school seniors who are prepared and interested in accelerating their coursework toward a college degree after they graduate from high school. Accepted students complete all high school diploma requirements during the first semester of their senior year and then attend TNCC as a full-time student during the second semester. Students in this program have the potential to
graduate from high school with a diploma and up to 19 college credits; Students are responsible for all fees associated with textbooks and materials. Program enrollment capacities and any financial contributions toward the cost of credit hours are set annually.

**Governor’s Early College Scholar Program** – The Early College Scholars Program allows eligible high school students to earn at least 15 hours of transferable college credit while completing the requirements for an Advanced Studies Diploma. Participating students sign an Early College Scholars Agreement, and those who meet the terms of the agreement will receive a certificate of recognition from the governor designating Early College Scholars.

**English as a Second Language (ESL)** – This program is designed to support the language acquisition and academic growth of non-native English speakers through meaningful access to, and participation in, the same curriculum and instruction as their native English-speaking peers. English Learners are engaged in instruction across the four domains of language, including reading, writing, listening, and speaking. Students who receive ESL services and who are enrolled in verified credit courses must take the associated SOL tests, but may be provided accommodations to assist in overcoming language barriers.

**Gifted Program** – The Gifted Education Program serves identified academically gifted students in specific content areas of study. The student's academic, social, and emotional needs are addressed in mathematics, English and social studies classes where differentiated curriculum is integrated, accelerated, and rigorous and differentiated instructional strategies are implemented.

**New Horizons Career and Technical Education Center** – Courses at the Regional Education Center qualify students for post-secondary education or skilled employment after graduation. Courses are open to all rising eleventh and twelfth graders. Rising twelfth grade students considering attendance at New Horizons for the first time should seek a detailed explanation from their counselor. Most courses carry three credits per year for each of the one or two years of study and transportation will be provided to and from the center. Students are full-time Jamestown, Lafayette, or Warhill students, eligible to participate in school-sponsored activities including athletics and after-school clubs.

**New Horizons Governor’s School for Science and Technology** – A two-year, half-day program for accepted eleventh and twelfth grade students. Accepted students will receive instruction both at their home school for two blocks and at the Governor’s School for two blocks each day. Students select one of the following strands for their Governor’s School experience: Computational Science & Engineering, Biological Sciences, or Engineering. Each strand provides a unique emphasis on both the science subject matter and associated career fields. Students enrolled in a science course spend another five hours minimum a week in an after-school mentorship program, and all New Horizons Governor’s School courses are yearlong courses.

**WJCC Honors Program** – The Honors Program of Williamsburg-James City County Public Schools was instituted in the fall of 2003. Highly motivated students earn special recognition for their outstanding efforts. The program invites students to take advantage of the extensive Advanced Placement offerings at the secondary level and to complete challenging, self-designed, community service and Honors projects. Students who successfully complete the expectations of the Honors Program receive Honors recognition. Participation in the Honors Program provides an advantage to students in the increasingly competitive college application process.

In addition to meeting the requirements of the Advanced Studies Diploma, candidates for the Honors Seal recognition must:

- Complete a minimum of five Advanced Placement (AP) courses, in three different content areas, with a grade of C or better
- Take at least five of the AP examinations associated with AP courses completed
- Complete a four-course sequence in one global language
- Design and complete a Community Service Project of at least 25 hours (see detailed description) (HPCS/2010/ 1 and 2)
- Design and complete an in-depth Honors Project (see detailed description)

Participants in the Honors Program must submit proposals to, and meet, with the division Honors Committee comprised of representatives from each high school and Central Office personnel. After receiving approval from the committee, students will work with the school's Honors Program Coordinator and with a mentor to successfully fulfill the requirements of the program. For more information about the Honors Program, please visit [https://wjccschools.org/departments/curriculum-instruction/curriculum/honors-program/](https://wjccschools.org/departments/curriculum-instruction/curriculum/honors-program/)

**WJCC Learning Lab** – The Learning Lab is a non-traditional program for high school students who meet specific criteria. Students continue working toward their high school diploma through online coursework completed in a smaller classroom environment (compulsory attendance laws apply). For more information, contact your school counselor.
Middle School Course Offerings & Descriptions

## ENGLISH

**English/Language Arts – Grade 6**
**1109**

The balanced literacy components of communication, reading, writing, and research are integrated into this sixth grade course. These skills are taught within the framework of the Reading and Writing Workshop Model. Flexible grouping within each class provides the instructional arena for word study, composition, literacy understanding, and research/study skills. Grammar skills are sharpened as students write and publish regularly for a variety of purposes. In sixth grade, there is an emphasis on narrative and reflective writing. These experiences prepare students for the reading Virginia Standards of Learning (SOL) exam.

**English/Language Arts – Grade 7**
**1110**

Balanced literacy continues to be the philosophy that promotes the integration of communication, reading, writing, and research in this seventh grade course. Students further develop their listening and oral communication skills in a variety of settings. Reading and writing continue to be taught through the Reading and Writing Workshops, which allow students to be engaged in individual, small group, and whole class exploration of authentic literature. Opportunities are provided to participate in genre studies, author studies, and thematic units. In seventh grade, students plan, draft, revise, and edit writing in a variety of forms with an emphasis on expository and persuasive writing. These experiences prepare students for the reading Virginia SOL exam.

**Honors English – Grade 7**
**1110-5**

Prerequisite: English/Language Arts 6 and 6th grade Reading SOL test: 450 or above

Honors English 7 provides an in-depth study of seventh grade literature with Socratic Seminar discussion groups and various writing formats. Critical thinking and analysis form the basis of this course. Students write often for different purposes and critique these pieces prior to publishing. Participation in writing contests is encouraged and oral presentations are an integral part of the course. These experiences prepare students for the reading Virginia SOL exam.

**English/Language Arts – Grade 8**
**1120**

In eighth grade, students continue to build upon skills previously learned in earlier grades. There is a continued emphasis on reading comprehension by comparing fiction and nonfiction texts. Students continue to write in a variety of forms with an emphasis on expository and persuasive writing. Grammar and mechanics are reviewed within the context of writing. Oral skills are used in developing and making presentations. Attention is given to preparing students for the reading and writing components of the Virginia SOL exam.

**Honors English – Grade 8**
**1120-5**

Prerequisite: English/Language Arts 7 and 7th grade Reading SOL test: 450 or above

The course is based upon, and follows, state and division curriculum guidelines for 8th grade English. This challenging class is designed to provide a rigorous course of study in the following language arts areas: high-level critical thinking, complex issues, conceptual learning, directed independent reading, writing preparation, and oral presentation. These experiences prepare students for the reading and writing components of the Virginia SOL exam.
**MATHEMATICS**

Suggested Upper Elementary and Middle School Math Sequence

All high school credit-bearing classes follow high school midterm and final examination tests and expectations.

**Pre-Algebra 6**
3110-06

This mathematics course will continue to build upon skills developed in the areas of whole numbers, decimals, and fractions. Ratios, proportions, and integers will be introduced to students to begin making the abstract connections in algebraic reasoning. Problem solving that applies to real-life situations is emphasized throughout the course and within each of the six content strands: number and number sense; computation and estimation; measurement; geometry; probability, statistics, and patterns; and functions with algebra. Manipulatives, calculators, and computers will be used where appropriate. Students enrolled in this course will take the Math 6 SOL assessment in the spring.

**Pre-Algebra 7**
3111-07

This mathematics course will emphasize proportional reasoning and problem solving involving consumer applications. Properties of real numbers, solving linear equations and inequalities, and data analysis techniques will be studied. Problem solving that applies real-life situations is emphasized throughout the course and within each of the six content strands: number and number sense; computation and estimation; measurement; geometry; probability, statistics, and patterns; and functions with algebra. Manipulatives, calculators, and computers will be used where appropriate. Students enrolled in this course will take the Math 7 SOL assessment in the spring.

**Pre-Algebra 8**
3112-08

Students will refine skills introduced in Pre-Algebra 6 and 7 and be introduced to concepts and skills necessary for the Algebra I curriculum. Elements of the course include the language of algebra, formulas, solving equations and inequalities, probability and relations, functions, and graphs. Problem solving that applies real-life situations is emphasized throughout the course and within each of the six content strands: number and number sense; computation and estimation; measurement; geometry; probability, statistics, and patterns; and functions. Algebra manipulatives, calculators, and computers will be used where appropriate. Students enrolled in this course will take the Math 8 SOL assessment in the spring.
Algebra I

3130

1 Credit - This is a high school credit-bearing course that will appear on the high school transcript.

A strong foundation for academic mathematics is provided in this course. Students will use algebra and a graphing calculator as tools for representing and solving a variety of practical problems. This course will establish a working understanding of the terminology, notations, and symbolism of algebra. Topics include rational numbers, equations, inequalities, polynomials, factoring, rational expressions, graphing linear equations, systems of equations, and radical expressions. Students enrolled in this course will take the Algebra I End-of-Course SOL assessment in the spring to earn verified credit.

Geometry

3143

Prerequisite: Algebra I

1 Credit - This is a high school credit-bearing course that will appear on the high school transcript.

This course is designed for students who have successfully completed Algebra I. The course includes the deductive axiomatic method of proof to justify theorems and tell whether conclusions are valid. Emphasis will be placed on two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. Students enrolled in this course will take the Geometry End-of-Course SOL assessment in the spring to earn verified credit.

SCIENCE

Science – Grade 6

4105

At this grade level, students will develop culminating experiences in the general sciences in preparation for content specialization during subsequent grades. Emphasis will be placed on student-oriented activities employing the components of experimental design and science process skills. The course focuses on the role of the sun’s energy in the Earth’s systems, water in the environment, air and atmosphere, and basic chemistry concepts. A more detailed understanding of the solar system and space exploration become a focus of instruction. Natural resource management, its relation to public policy, and cost/benefit tradeoffs in conservation policies are introduced.

Life Science – Grade 7

4115

Seventh grade life science will provide students with experiences investigating natural cycles and living systems. A hands-on exploratory approach incorporating experimental design components will generate understanding and appreciation of all living things, their roles in nature, their habitats, and the means by which scientists study them.

Physical Science – Grade 8

4125

During the academic year, students will become actively acquainted with two of the physical sciences: chemistry and physics. Using hands-on investigative skills of experimental design, they will explore natural laws governing matter and energy interactions and the principles of work, mechanics, and motion. Application of these laws and principles will focus on technology in a changing world and the use of technology as a tool for research and communication.

SOCIAL STUDIES

United States History to 1865 – Grade 6

2354

Sixth grade social studies focuses on United States History to 1865. Major topics include the first Americans, early exploration, colonial America, the American Revolution, early nationhood, westward expansion, and the Civil War. Concepts from civics, economics, and geography are integrated. Students learn about change and continuity in our history through reading stories and studying documents and speeches that lay the foundation of American ideals and institutions. They learn about well-known leaders as well as the everyday lives of a variety of common Americans. This course is based on the Virginia curriculum framework.
United States History: 1865 to the Present – Grade 7
2355
Students in seventh grade social studies continue the study of United States History (1865 to the present). Major topics include post-Civil War industrialization, immigration, the Progressive Era, the two World Wars, the Cold War era, the Civil Rights movement, and contemporary times. As in sixth grade, concepts from geography, government, and economics are included in the historical analysis, as is a focus on both famous historical people and common everyday citizens. This course is based on the Virginia curriculum framework.

Civics & Economics – Grade 8
2357
Eighth grade social studies is a focused, in-depth investigation of the structures and functions of America’s government systems, and America’s economic system. Students explore the characteristics of government at the federal, state, and local levels, including an analysis of historical roots, citizens’ rights and responsibilities, the process of political decision-making, and aspects of the courts and legal systems. Students also study essentials of economics, highlighted by a comparative investigation of various economic systems, classic economic principles, how the U.S. economy works, and the relationship of government to the economy. This course is based on the Virginia curriculum framework and is designed to prepare students for the SOL assessment.

HEALTH & PHYSICAL EDUCATION

Physical education is designed for lifelong physical skills and a healthy fitness level. The program offers a variety of individual and team activities. Adapted Physical Education: Students will be scheduled into adapted physical education with a doctor’s recommendation and approval of the child study committee.

Health and Physical Education – Grade 6
7111
Curriculum units include aerobic dance, jump rope, cooperative games, volleyball, racket skills, soccer, basketball, Frisbee activities, and personal fitness. Students are required to wear appropriate clothing suitable for an activity class: shorts, crew neck T-shirt, socks and tennis shoes. All clothing must meet the school’s dress code requirements.

Weekly units will also include a focus on career exploration and investigation, allowing students to identify their roles as workers, analyze their personal assets, explore career clusters, select career pathways or occupations for future study, and prepare for the creation of an Academic & Career Plan (ACP) based on their academic and career interests. The curriculum for health includes family life, sex education, personal safety, nutrition, and fitness. The major focus is care and safety of the middle school student. The objectives for family life are outlined in the WJCC School Division’s Handbook on Family Life and Sex Education. This course is taught by health and physical education teachers.

Health and Physical Education – Grade 7
7121
Curriculum units include volleyball, basketball, cooperative games, pickleball, social dance, Ultimate Frisbee, personal fitness, biking, in-line skating, and fitness lab activities. Students are required to wear appropriate clothing suitable for an activity class: shorts, crew neck T-shirt, socks and tennis shoes. All clothing must meet the school’s dress code requirements.

The goal of the study of health is to empower students to take control of their lifestyle and their personal choices. Curriculum units include fitness, nutrition, family life, personal choices and substance abuse. Fitness Lab curriculum includes core fitness, cardio training, and strength training.

Health and Physical Education – Grade 8
7210
Curriculum units include volleyball, Tchoukball, pickleball, rhythmic patterns, speedball, biking, in-line skating, lacrosse, personal fitness, strength training, and fitness lab activities. Students are required to wear appropriate clothing suitable for an activity class: shorts, crew neck T-shirt, socks and tennis shoes. All clothing must meet the school’s dress code requirements.

The goal of eighth grade health is to continue to help students make healthful choices that enhance their wellness and safety. Curriculum units include personal fitness and nutrition, family life, and first aid and safety. Fitness Lab curriculum includes circuit training benefits, target heart rate, and interval training benefits.
WORLD LANGUAGES

All high school credit-bearing classes follow all high school midterm and final examination tests and expectations.

Introduction to World Languages – Grade 6
5001

This interactive and engaging course is designed to introduce students to customs, culture, and traditions of up to four languages including French, German, Latin, and Spanish. The basic language instruction will allow students to gain experiences in introductory conversational skills relevant to their daily lives. This will afford students the opportunity to compare and contrast the language studies to English, learn about the origins of those languages, and gain a deeper understanding of the cultural perspectives of the speakers of the presented languages. This course is formatted to encourage and support students in their pursuit of further language study.

French I Sequence I (5104) – Grade 7 / French I Sequence II (5105) – Grade 8
German I Sequence I (5204) – Grade 7 / German I Sequence II (5205) – Grade 8
Spanish I Sequence I (5504) – Grade 7 / Spanish I Sequence II (5505) – Grade 8

These courses are the beginning of a sequence of World Language study. Successful completion of both the seventh grade sequence I and the eighth grade sequence II course is the credit equivalent of one full year of high school Level I World Language and will appear on the high school transcript. The emphasis will be upon developing comprehension, listening, and speaking skills. In addition, beginning target language reading and writing skills will be taught. The courses will offer students a deeper understanding of the culture of the various countries in which the language is spoken.

Latin I Sequence I (5304) – Grade 7/Latin I Sequence II (5305) – Grade 8

These courses provide students with the fundamental principles of the language as well as an understanding of the history, culture and mythology of the classical world. These provide the foundation and inspiration for many of the topics addressed in Social Studies, English and Fine Arts courses. The emphasis will be upon developing comprehension and critical thinking skills. Latin students can expect to see significant benefits in vocabulary growth, reading comprehension skills and pattern recognition. Successful completion of both the seventh grade sequence I and the eighth grade sequence II course is the equivalent of one full year of high school Level I Latin and will appear on the high school transcript.

French I – Grade 8
5110

1 Credit - This is a high school credit-bearing course that will appear on the high school transcript.

This course enables students to develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. The students will actively participate in contextualized activities and use all three communicative modes (Interpretive, Interpersonal and Presentational) to increase their ability to communicate orally and in writing. Emphasis is placed on comparing and contrasting the culture of French-speaking peoples with American culture.

German I – Grade 8
5210

1 Credit - This is a high school credit-bearing course that will appear on the high school transcript.

This course enables students to develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students will actively participate in contextualized activities and use all three communicative modes (interpretive, interpersonal, and presentational) to increase their ability to communicate orally and in writing. Emphasis is placed on comparing and contrasting the culture of German-speaking peoples with American culture.
Latin I – Grade 8
5310
1 Credit - This is a high school credit-bearing course that will appear on the high school transcript.

This course provides students with the fundamental principles of the language as well as an understanding of the history, culture and mythology of the classical world. These provide the foundation and inspiration for many of the topics addressed in social studies and fine arts courses. Emphasis will be upon developing comprehension and critical thinking skills. Latin students can expect to see significant benefits in vocabulary growth, reading comprehension skills, and pattern recognition.

Spanish I – Grade 8
5510
1 Credit - This is a high school credit-bearing course that will appear on the high school transcript.

This course enables students to develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students will actively participate in contextualized activities and use all three communicative modes (interpretive, interpersonal, and presentational) to increase their ability to communicate orally and in writing. Emphasis is placed on comparing and contrasting the culture of Spanish-speaking peoples with American culture.

*Specific language offered will depend on enrollment

FINE ARTS

Art

Art – Grade 6
This class is delivered through the Exploratory Wheel (Exp6)

Emphasis at this level is on use of design elements for expression and communication. A focus is on the role of art in world cultures and contemporary life.

Art – Grade 7
9104

Visual communication, design principles and drawing are stressed at this level. Objectives reflect concern for realistic representation and an interest in contemporary issues.

Art – Grade 8
9115

The elements and principles of design continue to be stressed at this level. Expression of feelings through art media and communication through mass media are also explored.

Advanced Art – Grade 8
9115ADV

Prerequisites: Art Grade 7 and recommendation of the Instructor

This course is designed for advanced art students who are ready for high school level instruction. Students are introduced to the techniques and methods of creating and studying works of art. Fundamentals of pencil drawing and composition, color theory, and design in painting and printmaking are included. Ceramics, sculpture, crafts, art history, and career opportunities are explored. A sketchbook and notebook are required.

Music

General Music – Grade 6
This class is delivered through the Exploratory Wheel (Exp6)

Students will continue acquiring musical knowledge and skills by singing, playing instruments, performing rhythms, moving to music, composing, and improvising. Students explore music theory by reading and writing music notation representative of various musical styles and musical works. Students will demonstrate an understanding of music and its relationship to history,
Students will develop musical knowledge and skills in the choral setting. Students begin to develop choral skills, including singing in unison and harmony, with emphasis on vocal production and technique. Students learn to read, write, and compose music, using basic music theory. They explore and perform music in a variety of music styles. In addition, students develop an understanding of acceptable concert etiquette. Students who demonstrate more advanced skills will have the opportunity to participate in sanctioned VMEA and/or ACDA choir activities (e.g., VA Honor Choir, District Assessment and Festival). All scheduled concerts and rehearsals are required for this course.

Students will build upon the skills and knowledge acquired at the beginning level. Students continue the development of vocal production techniques and ensemble participation. As students perform choral works and sight-read materials, they expand their performance abilities and creativity. Opportunities are provided for students to explore choral music as a means of expression and communication. Through the collaborative environment of the choral setting, students develop an understanding of teamwork and leadership skills. Students who demonstrate more advanced skills will have the opportunity to participate in sanctioned VMEA and/or ACDA choir activities (e.g., District Workshop Chorus, All-VA Honor Choir, District Assessment and Festival). All scheduled concerts and rehearsals are required for this course.

Students build upon the skills and knowledge acquired at the intermediate level. As students perform choral works and sight-read materials, they expand their performance abilities and creativity. Through the collaborative environment of the choral setting, students demonstrate teamwork and display leadership skills. They develop an understanding of and appreciation for vocal/choral music and its relationship to other disciplines. Students who demonstrate more advanced skills will have the opportunity to participate in sanctioned VMEA and/or ACDA choir activities (e.g., District Workshop Chorus, All-VA Honor Choir, District Assessment and Festival). All scheduled concerts and rehearsals are required for this course.

An exploratory class designed to help students obtain musical knowledge and skills for use in the choral setting, in preparation for them to participate in more advanced choral ensembles. Students begin to develop choral skills, including singing in unison and harmony, with emphasis on vocal production and technique. Students learn to read, write, and compose music, using basic music theory. They explore and perform music in a variety of music styles. In addition, students develop an understanding of acceptable concert etiquette. Students will actively sing in the choral classroom and attend school-based and extra-curricular performances.

Students have the opportunity to take this course once in EITHER Grade 7 or 8. Students will learn fundamentals and develop skills on the guitar. Guitar instruction emphasizes basic and intermediate technique, reading, progressions, and music theory. Instructional literature is selected from both classical and contemporary repertoires. Students who use WJCC instruments are assessed a fee per semester.

This band course is designed for the beginning musician. The class includes three basic areas: brass, woodwinds, and percussion. Extracurricular music performance opportunities will be available to all students who demonstrate competence on a particular instrument. Students who use WJCC instruments are assessed a fee per semester.
Intermediate Band – Grade 6
Brass6
Percussion6
Woodwinds6

Prerequisite: Students must have played their instrument during 5th grade and/or audition

This band course is designed for the continuing musician. The program includes three basic areas: brass, woodwinds, and percussion. Extracurricular music performance opportunities will be available to all students who demonstrate competence on a particular instrument. Students who use WJCC instruments are assessed a fee per semester.

Band – Grade 7
Brass7
Percussion7
Woodwinds7

Prerequisite: Band 6 or audition

This course is designed to train a student to become a proficient musician on his/her individual instrument. The class includes three basic areas: brass, woodwinds, and percussion. Extracurricular music performance opportunities will be available to all students who demonstrate competence on a particular instrument. Students who have demonstrated advanced skills will have the opportunity to participate in sanctioned VBODA band activities (e.g., All-District Band, District Concert Band Assessment, District Jazz Ensemble Festival, and Solo & Ensemble). Students who use WJCC instruments are assessed a fee per semester.

Band – Grade 8
Brass8
Percussion8
Woodwinds8

Prerequisite: Band 7 or audition

This course is designed to increase the proficiency of a musician on his/her individual instrument. The class includes three basic areas: brass, woodwinds, and percussion. Extracurricular music performance opportunities will be available to all students who demonstrate competence on a particular instrument. Students who have demonstrated advanced skills will have the opportunity to participate in sanctioned VBODA band activities (e.g., All-District Band, District Concert Band Assessment, District Jazz Ensemble Festival, and Solo & Ensemble). Students who use WJCC instruments are assessed a fee per semester.

Beginning Orchestra – Grade 6
9235B

This orchestra course is designed for the beginning strings musician. This class includes the study of violin, viola, cello, and bass. Extracurricular music performance opportunities will be available to all students who demonstrate competence on a particular instrument. Students who use WJCC instruments are assessed a fee per semester.

Intermediate Orchestra – Grade 6
9235I

Prerequisite: Audition or consent of the Director

This orchestra course is designed for the continuing strings musician. This class includes the continued study of violin, viola, cello, and bass. Extracurricular music performance opportunities will be available to all students who demonstrate competence on a particular instrument. Students who use WJCC instruments are assessed a fee per semester.

Orchestra – Grade 7
9236

Prerequisite: Orchestra 6 or audition

This orchestra course is designed to train a student to become a proficient musician on his/her individual instrument. The class includes the study of violin, viola, cello, and bass. Extracurricular music performance opportunities will be available to all students who demonstrate competence on a particular instrument. Students who have demonstrated advanced skills will
have the opportunity to participate in sanctioned VBODA band activities (e.g., District Orchestra, District Concert Assessment, Solo & Ensemble, etc.). Students who use WJCC instruments are assessed a fee per semester.

**Orchestra – Grade 8 9237**

**Prerequisite: Orchestra 7 or audition**

This orchestra course is designed to increase the proficiency of a musician on his/her individual instrument. The class includes the study of violin, viola, cello, and bass. Extracurricular music performance opportunities will be available to all students who demonstrate competence on a particular instrument. Students who have demonstrated advanced skills will have the opportunity to participate in sanctioned VBODA band activities (e.g., District Orchestra, District Concert Assessment, Solo & Ensemble, etc.). Students who use WJCC instruments are assessed a fee per semester.

**Theatre**

**Exploration of Theatre Arts – Grade 6**

This class is delivered through the Exploratory Wheel (Exp6)

This class allows students to explore theatre as a collaborative art that fosters confidence, creativity and spontaneity. Students will incorporate the skills of speech, art, basic acting skills, music, movement, basic theater terminology, and literature.

**Theatre Arts – Grade 7 1400**

This course focuses on the acting skills necessary to communicate a story and character to an audience. The culmination of this course may be a public performance.

**Theatre Arts Production – Grade 8 1401**

Students build ensemble skills, focus on psychological and emotional dimensions of characters, perform scripted works and explore theatrical design concepts.

**Advanced Theatre Arts Production – Grade 8 1392**

**Prerequisite: Theatre Arts Grade 7**

As an extension of previous learning, students build ensemble skills, focus on the psychological and emotional dimensions of character, perform scripted works and explore theatrical design concepts. They will refine their analytical, collaborative, problem-solving, and critical-thinking skills to make artistic decisions and present a unified production. This course prepares students for theatre arts studies at the high school level.

### CAREER AND TECHNICAL EDUCATION (CTE)

**Technology Education**

**Introduction to Technology – Grade 6**

This class is delivered through the Exploratory Wheel (Exp6)

Students study the resources of all technology, including tools, energy, materials, people, time, information, and capital. This also includes the problem-solving process and various hands-on activities. Students explore up to six systems of technology, including medical, agricultural and related biotechnologies, energy and power, information and communication, transportation, manufacturing, and construction. Students relate the impact of technology on society, environment, and culture to future consequences and decisions.
Inventions & Innovations – Grade 7
8461
Inventions and Innovations focuses on students learning problem-solving skills by identifying problems, gathering information, and designing solutions by invention of products or innovations. Students will learn the importance of technology in the development of society and demonstrate the safe use of software, tools, and equipment.

Technological Systems – Grade 8
8463
Students explore, design, analyze, and evaluate technological systems and the impact these systems have on individuals, society, resources, and the environment. Students may be required to complete projects such as designing and building a model race car, drafting house plans, wiring circuits, using lasers to communicate across space, recording a radio broadcast, and using computers and robots to manufacture an object.

High School Course Offerings & Descriptions

ENGLISH

Suggested Core Course Sequence

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<thead>
<tr>
<th>Grade</th>
<th>Course</th>
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<tbody>
<tr>
<td>9th</td>
<td>English 9</td>
<td>Honors English 9</td>
<td>Commonwealth Innovation - English 9, World History II &amp; Speech</td>
<td>–</td>
</tr>
<tr>
<td>10th</td>
<td>English 10*</td>
<td>Honors English 10*</td>
<td>Commonwealth Innovation - English 10* &amp; Principles of Business Marketing</td>
<td>–</td>
</tr>
<tr>
<td>11th</td>
<td>English 11*</td>
<td>Honors English 11*</td>
<td>Commonwealth Innovation - English 11* &amp; VA/US History</td>
<td>AP English Language &amp; Composition</td>
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<tr>
<td>12th</td>
<td>English Literature 12</td>
<td>Advanced World Literature</td>
<td>AP English Literature &amp; Composition</td>
<td>AP English Language &amp; Composition</td>
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*There is a Virginia Standards of Learning (SOL) exam or End-of-Course assessment associated with this course.

English 9
1137SB
1 Credit • Prerequisite: English 8

English 9 focuses on the analysis and interpretation of literature. This course introduces a wide variety of reading, writing, and speaking activities that require the ability to work both independently and cooperatively. Papers, projects and reading assignments will be literature based. Students will read world literature, will use the writing process to create papers in a variety of modes, and will be required to prepare and present informal and formal oral presentations.

Honors English 9
1139SB
1 Credit • Prerequisites: English 8

Honors English 9 is an advanced course designed to prepare and challenge enthusiastic ninth grade students. This course focuses on critical analysis and in-depth interpretation of complex literature for college-bound students. Students will analyze and sharpen writing skills with a focus on the expository mode. This rigorous course will allow students to select a tenth grade course responsibly.
This interdisciplinary, co-taught course will encourage and enable students to participate in sustained, collaborative inquiry within a global context. Students will reflect upon the orientation of humanities topics in space and time and produce genuine solutions to real-world issues on community, national, and global scales. Students will research, write, and deliver personal, informative, persuasive, and impromptu speeches as well as conduct interviews, prepare interpretive readings, and learn storytelling. Students should have computer skills capable of independent research to complete group-based, project-based learning. Students in this course will prepare to take the World History II SOL assessment at the end of the course.

**English 10**
1147SB

1 Credit • Prerequisite: English 9

English 10 focuses on the analysis and interpretation of literature. Students will read and analyze a variety of literary genres and continue to develop oral communication skills. An emphasis is placed on research skills and organized, effectively developed expository writing.

**Honors English 10**
1144SB

1 Credit • Prerequisites: English 9

Honors English 10 is an advanced course designed to prepare and to challenge enthusiastic tenth grade students. This course focuses on critical analysis and in-depth interpretation of complex literature for college-bound students. Students will analyze a variety of literary genres, complete supplemental readings, develop Paideia skills, and sharpen writing skills with a focus on the expository mode. This rigorous course will allow students to select an eleventh grade course responsibly. An in-depth summer assignment is also required.

**Commonwealth Innovation (CI) - English 10* and Principles Of Business & Marketing**
985CI

1 Credit English (English 10) *Honors English 10 extension available
1 Credit CTE (Principles of Business & Marketing)

Prerequisite: English 9

The real-world impact of technology, effective communication, and interpersonal skills is evident throughout this course. There is a sustained emphasis on reading comprehension by comparing fiction and nonfiction texts and students will analyze the cultural and social functions and universal themes of fictional texts from different cultures. Students will discover the roles of business and marketing in the free enterprise system and the global economy. Students will use multimodal tools to create presentations both independently and in small groups, and will continue to build research skills presenting information gathered from diverse sources, identifying misconceptions and possible bias while crediting MLA or APA style. Students in this course will prepare to take the Writing SOL assessment at the end of the course. Students may also earn an Industry Credential at the conclusion of this course by taking the Workplace Readiness Skills assessment.

**The Nature of Mankind**
983HSPI

1 Credit English (English 10 or English 11) *Honors English 10 extension available
1 Credit Science (Biology) *Honors Biology extension available

This interdisciplinary, co-taught English/Biology course will combine concepts from Biology with aspects of written language to connect students to the natural world surrounding them. Students will be challenged to take a critical perspective in order to connect more deeply to concepts such as human health, sustainability, and scientific communication. Skills students will utilize include addressing community needs through creating and presenting proposals, writing and applying for grants and funding opportunities, and advertising. Students in this course will prepare to take the Biology SOL assessment at the end of the course.
English 11
1157SB
1 Credit • Prerequisites: English 9 & 10
English 11 prepares students for post-secondary education or for immediate entry into the work force. Students will trace the development of American literature from the 1600s to the present. Emphasis will be placed on logical analysis of arguments, use of propaganda in the media, and persuasive writing. Students will write cited research papers dealing with issues, problems, or questions. Group work, library research, and oral presentations are also required.

Honors English 11
1152
1 Credit • Prerequisites: English 9 & 10
Honors English 11 is an advanced course in American literature that draws upon material from the colonial period to the present day. An in-depth study on selected major American writers and works of others who have profoundly influenced the development of our national literature are also analyzed. Research for themes that reflect uniquely American ideals and values are discussed along with understanding the meaning and concept of the “American Dream.” Exploration and the expressing of complex questions and the importance of individual moral choice and responsibility to the larger human community are also examined. Through the study of literature, students will achieve a better understanding of themselves and our national character. Extensive reading is required.

Commonwealth Innovation (CI) - Virginia & U.S. History and English 11*
987CI
1 Credit Social Studies (Virginia & U.S. History)
1 Credit English (English 11) *Honors English 11 extension available
Prerequisite: English 9 & 10
This yearlong, interdisciplinary, team-taught course is designed to engage students in a thorough study of American History and the arts using project-based learning. Through the interrelationships of the humanities; fine arts; and the social, intellectual, and political history of the United States, students explore and examine topics using a thematic approach. A variety of individual and groups creative assignments will be completed with an emphasis on creative thinking, critical thinking, communication, and collaboration. Reflection, feedback, and revision are essential parts of this course. Students in this course will prepare to take both the Reading SOL and the Virginia & US History SOL assessments at the end of the course.

English Literature 12
1161SB
1 Credit • Prerequisites: English 9, 10 & 11
This course is designed for both college or non-college bound students. The course focuses on modern literature and the relevance of classic works to contemporary issues. Readings, discussions, group projects, and written responses build an understanding of human reactions and allow students to share opinions, develop alternatives for handling conflict, and relate events and images in literature to their own lives. Students complete senior research papers and an oral presentation.

Advanced World Literature 12
1190SB
1 Credit • Prerequisites: English 9, 10 & 11
This course provides college preparatory work for students who appreciate meaningful and challenging literature from many cultures and time periods. Assignments require in-depth analysis and application of literary works to contemporary life through discussions, writings, and independent and/or group work. Students must complete senior research papers and independent reading projects with oral presentations.
English 12 Capstone
1163
1 Credit • Prerequisite(s): English 9, 10 & 11

This course contains high-interest contextualized content designed to give students an additional boost for competent and successful entry into college and careers. The course will add to students’ preparation for critical reading, college and workplace writing, and career-ready communications by enhancing skills in reading, the writing process, and creation of effective texts, and effective communications (speaking, listening, and collaborating). This course will augment skills in critical reading; critical writing; the fundamentals of academic writing; and exposition, persuasion, and argumentation. Through the writing process, students will refine topics; develop and support ideas and hypotheses; investigate, evaluate, and incorporate appropriate resources; edit for effective style and usage; and determine appropriate approaches for a variety of contexts, audiences, and purposes. Students will work both face-to-face and through an online platform in order to communicate, collaborate, critically think, and create.

Advanced Placement English Literature and Composition
1195
1 Credit • Prerequisites: English 9, 10 & 11

NOTE: Students should not take two AP English classes during the same semester.

This college-level course emphasizes language, themes, structures, and values through intensive study of numerous literary genres and periods. Oral and written compositions, including personal, creative and analytical pieces, require the structuring of ideas and writing style development. Students test their responses to literary works against their peers and literary critics. The course prepares students for the AP Literature and Composition examination. Extensive summer reading and writing are required.

Advanced Placement English Language and Composition
1196
1 Credit • Prerequisites: English 9 & 10

NOTE: Students should not take two AP English classes during the same semester. This class may also be offered in the dual enrollment format.

This college-level composition class in non-fiction writing requires weekly research-based writing assignments. Assignments include narration, analysis, and argumentative essays as well as news, feature, and in-depth stories requiring interviewing and observation. Major fiction works will be studied as independent work. This course prepares students for the AP Language and Composition examination.

College Composition I & II
12ECP
1 Credit • Prerequisite: English 9, 10, & 11 and acceptance into Early College Program with TNCC

This course introduces students to critical thinking and the fundamentals of academic writing. Through the writing process, students refine topics; develop and support ideas; investigate, evaluate, and incorporate appropriate resources; and determine appropriate approaches for a variety of contexts, audiences, and purposes. Students will continue to develop college writing skills with increased emphasis on critical essays, argumentation, and research, developing these competencies through the examination of a range of texts about the human experience. Students will to locate, evaluate, integrate, and document sources and effectively edit for style and usage.

The following courses are electives, and do not satisfy diploma requirements in the area of English.

Creative Writing
1171SB
1 Credit • Prerequisite: English 9

This course is a writing workshop. Students will write every day, and will explore different writing techniques and styles. Writing skills will be developed through pre-writing, editing, re-writing, and critiquing. As a community, students will learn a great deal about each other by writing across various modes of art-in-language.
Independent Study Course (ISC) – Grades 11-12
ISP
1 Credit - Pass/Fail
The Independent Study Course (ISC) allows students the opportunity to pursue a topic of interest that is not currently offered within the school curriculum. Prior to the school year, the student must have submitted a proposal for review and presented to a division-based committee for approval. Once approved, the student will be engaged in research and activities that will lead to a minimum of one major product, two oral presentations, and two minor products. A limited number of proposals will be accepted. For more information, see the gifted resource teacher at your school.

Journalism I
1205SB
1 Credit • Prerequisite: English 9
Students are introduced to the exciting world of the print media. Journalism students will learn the basic skills of relaying information accurately and self-expression through print communication. Through this course, students will learn and practice journalistic skills used in reporting, writing, designing, and producing a publication. In addition, students will work on the student newspaper further developing their journalism skills; basic business management principles; and interpersonal relationships by working in collaborative groups. Students will have use of state-of-the-art computer-aided publishing tools and other hands-on production tools such as InDesign, Photoshop, and digital cameras. This course will serve as a learning workshop for students interested in working on the student newspaper and may provide students insight into college and career choices. Some out-of-class time may be required.

Journalism II: Newspaper Production
1210SB
1 Credit • Prerequisite: Journalism I or teacher recommendation
Students who serve as editors and staff members of the school newspaper may enroll in Journalism II. Students will plan, report, write, edit, and produce the school newspaper in class and during after-school production sessions. Reporters will research and write all newspaper content and will use digital photography, Photoshop, InDesign, and other available technology for design and production.

Journalism III: Newspaper Production
1211SB
1 Credit • Prerequisite: Journalism II
Students who serve as editors and staff members of the school newspaper may enroll in Journalism III: Newspaper Production. In addition to enhancing their skills as reporters, Journalism III provides students advanced opportunities for learning editorial leadership, developing a personal sense of professionalism, understanding the role of the newspaper in society, and becoming productive members of the newspaper staff. Students will plan, report, write, edit and produce the school newspaper in class and during after-school production sessions. Reporters will research and write all newspaper content and will use available technology for design and production.

Journalism IV: Newspaper Production
1212SB
1 Credit • Prerequisite: Journalism III
Students who have successfully completed Journalism III and will serve as editors and staff members of the school newspaper may enroll in Journalism IV: Newspaper Production. Journalism IV students will serve as writing coaches, maestro team leaders, and editors, assuming total responsibility for newspaper production. They will also complete a required independent study project related to current issues in journalism. The course may be repeated for elective credit.
Mass Media: Yearbook Production
1223SB

1 Credit each time (may take up to 4 times) • Prerequisite: Honors English 9 or teacher recommendation

This course will provide students with the opportunity to acquire and apply communication and technical skills in a real-world setting through work on production of the school yearbook. Students will strengthen their creative and critical thinking skills and use their knowledge of grammar and writing skills to produce the yearbook. Students will work independently and as part of an organized production staff for at least one semester. Students may take Mass Media for credit up to four times, with the expectation that students will enhance, refine, and expand their knowledge and technical skills, bringing to each new series a high level of expertise. Students choosing to take this course for the fourth time will take on leadership roles as editors, business managers, web masters, photography, and technology editors while peer teaching, delegating, leading, refining, and enhancing all aspects of the yearbook journalism process. These experienced yearbook journalism students will be provided an opportunity to design and publish the high school yearbook in a real world internship-like atmosphere.

Speech
1300SB

1 Credit

Students will research, write, and deliver personal, informative, persuasive, and impromptu speeches as well as conduct interviews, prepare interpretive readings, and learn storytelling. All speech assignments are presented to a classroom audience and some are videotaped. Many speeches are research based and require written outlines, so students must be able to work independently in the library, conduct interviews, prepare interpretive readings, and learn storytelling.
Suggested Core Course Sequences

- Algebra I* or Algebra I Sequence II*
  - Geometry*
    - AFDA or Commonwealth Innovation - AFDA and Applied Physics
    - Geometry*
  - Probability and Statistics
    - or
    - Commonwealth Innovation - Probability & Statistics and World Geography
  - Elementary Functions/Trigonometry
    - Algebra II*
    - Elementary Functions/Trigonometry
      - Algebra II*
      - AP Statistics
        - Math Analysis
          - Calculus
            - AP Calculus (AB)
            - AP Calculus (BC)
            - Math 12 Capstone
              - AP Calculus (BC)
              - Math 12 Capstone
              - Probability and Statistics

*There is a Virginia Standards of Learning (SOL) exam associated with this course.
Algebra I Sequence II – Grade 9
3232

Prerequisite: Algebra I Sequence I

Students will receive 1 math credit for Algebra I after the completion of both courses (Sequence I and II).

Algebra I Sequence II is the second course of a two-year algebra sequence. The course is designed to help students understand the basic structure of algebra and acquire proficiency in applying algebraic concepts and skills in authentic situations. The course focuses on the development of problem-solving skills and the acquisition of mathematical vocabulary and symbols. Topics include systems of equations and inequalities, quadratic and exponential functions, polynomials, factoring, solving quadratic equations, statistics, and rational expressions. Students will engage in mathematical discourse with the teacher and other students. Students will take the Standards of Learning (SOL) assessment for Algebra I or a substitute test approved by the State Board of Education. Specific dates for the administration of the SOL assessment will be announced by the school.

Algebra I (Yearlong)
3130 & 3130-1

1 Credit Mathematics
1 Credit Elective

Corequisite: Concurrently enrolled in Algebra I Lab

A strong foundation for academic mathematics is provided in this course. Students will use algebra and the graphing calculator as tools for representing and solving a variety of practical problems. This course will establish a working understanding of the terminology, notations, and symbolism of algebra. Topics include rational numbers, equations, inequalities, polynomials, factoring, rational expressions, graphing linear equations, systems of equations, and radical expressions. This course is paired with a required math lab to enhance a student’s understanding of these abstract skills.

Geometry (One Semester)
3143SB

1 Credit • Prerequisite: Algebra I

This course is designed for students who have successfully completed Algebra I. The course includes the deductive axiomatic method of proof to justify theorems and determine whether conclusions are valid. Methods of justification may include paragraph proofs, flow charts, two-column proofs, indirect proofs, coordinate proofs, verbal arguments, and formal proofs. Emphasis will be placed on two and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. A variety of applications and general problem-solving techniques will be used including algebraic skills. Graphing calculators will be used where feasible.

Geometry (Yearlong)
3143 & 3143-1

1 Credit Mathematics
1 Credit Elective

Prerequisite: Algebra I

Corequisite: Concurrently enrolled in Geometry I Lab

This course is designed for students who have successfully completed Algebra I. The course includes, among other things, the deductive axiomatic method of proof to justify theorems to determine whether conclusions are valid. Methods of justification may include paragraph proofs, flow charts, two-column proofs, indirect proofs, coordinate proofs, verbal arguments, and formal proofs. Emphasis will be placed on two and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. A variety of applications and general problem-solving techniques will be used including algebraic skills. Graphing calculators will be used where feasible. This course is paired with a required math lab to enhance a student’s understanding of these abstract skills.
Algebra, Functions, and Data Analysis (AFDA)
3134SB
1 Credit • Prerequisite: Algebra I
Through mathematical modeling and data analysis, students will study functions and their behaviors, systems of inequalities, probability, and experimental design and implementation. Students will solve problems that require the formulation of linear, quadratic, exponential, or logarithmic equations or system of equations. Through the investigation of mathematical models, data analysis, and interpretation from real-life situations, students will strengthen conceptual understandings in mathematics and further develop connections between algebra and statistics. The infusion of technology (graphing calculator and/or computer software) in this course will assist in modeling and investigating functions and data analysis.

Commonwealth Innovation (CI) - Algebra, Functions, & Data (AFDA) and Physics
984CI
1 Credit Mathematics (AFDA)
1 Credit Science (Physics)
Prerequisite: Algebra I
This interdisciplinary, co-taught AFDA/Physics course will investigate scientific method and data collection/analysis skills, linear functions and motion, projectiles and quadratics, energy and systems of equations, and logarithms and sound. In addition to traditional classroom learning, each unit will include a project that will utilize digital design tools to create three-dimensional models. This course is ideal for students who have interest in, or experience with, principles of engineering or engineering design.

Algebra II (One Semester)
3135SB
1 Credit • Prerequisite: Geometry
This course will cover advanced mathematical and algebraic concepts at a moderate pace. Topics include linear equations and inequalities; functions; systems of equations and inequalities; sequence and series; polynomials; and problem solving rational expressions, radicals, irrationals, quadratic functions, complex numbers, conics, and polynomial functions. It is recommended that students have at least a “C” average in Algebra I and Geometry before proceeding to Algebra II.

Algebra II (Yearlong)
3135 & 3135-1
1 Credit Mathematics
1 Credit Elective
Prerequisite: Geometry
Corequisite: Concurrently enrolled in Algebra II Lab
This course will cover advanced mathematical and algebraic concepts at a moderate pace. Topics include linear equations and inequalities; functions; systems of equations and inequalities; sequence and series; polynomials; and problem solving rational expressions, radicals, irrationals, quadratic functions, complex numbers, conics, and polynomial functions. It is recommended that students have at least a “C” average in Algebra I and Geometry before proceeding to Algebra II.

Elementary Functions/Trigonometry
3166SB
1 Credit • Prerequisite: Algebra II
Functions/Trigonometry is a course for the college-bound student who may or may not pursue mathematics at the highest level. Topics include a brief review of algebra; in-depth coverage of families of functions; and an introduction to unit circle, trigonometric functions, and problem-solving using trigonometric concepts. Graphing materials will be used by students and teachers, when appropriate, to enhance understanding of applications.
Math Analysis/Pre-Calculus
3161SB
1 Credit • Prerequisite: Elementary Functions/Trigonometry
For mathematically capable students who plan to continue in a field that emphasizes mathematics, science, engineering, etc. This course is an abstract, theoretical approach to formal mathematics that extends and unifies algebra, geometry, and trigonometry through analysis. Topics include real and complex number fields; polynomial, rational, algebraic, circular, logarithmic and exponential functions; the algebra of functions; analytic trigonometry; systems of equations and inequalities; matrices; sequences and series; polar equations; and limits. It is strongly recommended that students have a graphing calculator.

Commonwealth Innovation (CI) - Virginia & U.S. Government, Law & Society and Discrete Math - Grade 12
990CI
1 Credit Social Studies (Virginia & U.S. Government)
1 Credit Elective
1 Credit Math (Discrete Math)
Prerequisite: Virginia & US History and Algebra II
This course is a co-taught, interdisciplinary course that will investigate how government, law, and mathematics interact to create a society. Students will examine policies and regulations, both historic and current, through the lens of civic rights and responsibilities. Students will apply discrete mathematics to democratic problems, determining whether a solution exists, how many solutions exist, and what the best solution may be. This course is ideal for students who have interest in politics and/or technology.

Grade 12 Mathematics Capstone
3142SB
1 Credit • Prerequisite: Algebra II or Algebra, Functions, and Data Analysis (AFDA); Student must have earned 2 verified credits in the area of Math
Students will research, collect and analyze data; develop and support ideas and conjectures; investigate, evaluate, and incorporate appropriate resources; and determine appropriate problem-solving approaches and decision-making algorithms in a variety of real-world contexts and applied settings. The course will add to students’ preparation for postsecondary education and the workforce by (1) enhancing skills in number and quantity, functions and algebra, geometry, and statistics and probability; (2) simultaneously reinforcing readiness skills and dispositions in adaptability and flexibility, creativity and innovation, leadership, team work, collaboration, and work ethic.

Calculus
3175SB
1 Credit • Prerequisite: Math Analysis/Pre-Calculus
Calculus investigates fundamentals of the mathematics of change: limits, differentiation, and integration. Students will strengthen their understanding of functions as they study problems from geometric, numerical, and algebraic viewpoints. Applications relate derivatives and integrals to a variety of real-world situations. The course includes extensive use of graphing calculators.

Advanced Placement Calculus – AB
3177SB
1 Credit • Prerequisite: Math Analysis/Pre-Calculus
AP Calculus AB is college-level mathematics for which many students will receive college credit according to their score on the AP exam. The AP syllabus for AB Calculus includes limits; derivatives and their applications; the Mean Value Theorem; the Fundamental Theorem of Calculus; the definite and indefinite integral; volumes of solids; differentiation and integration of logarithmic, exponential and trigonometric functions; and techniques of integration. Graphing calculators are required. Students are prepared for the AP Calculus AB examination.
Advanced Placement Calculus – BC
3178SB
1 Credit • Prerequisite: Calculus AB

This course covers the additional topics required for BC Calculus as stated in the AP syllabus for Calculus BC. These include techniques of integration, derivatives of vector and parametrically defined functions, area bounded by polar curves, improper integrals, sequences, and series. Students will be prepared for the Advanced Placement Calculus BC examination.

Probability and Statistics
3191SB
1 Credit • Prerequisite: Algebra II or Algebra, Functions, and Data Analysis

This course will present fundamental concepts and tools for collecting, analyzing, and predicting based on data. The course focuses on the applications of probability, statistics, and logic in business, industry, science, and government and provides practical preparation for a wide variety of career fields.

Commonwealth Innovation (CI) - Probability & Statistics and World Geography – Grade 10
982CI

1 Credit Mathematics (Probability & Statistics)
1 Credit Social Studies (World Geography)

Prerequisite: Algebra, Functions, and Data Analysis (AFDA) or Algebra II

This interdisciplinary, co-taught social studies/math course will encourage and enable students to explore human-environmental interactions, world conflicts, and current events through graphical and statistical analysis. A variety of individual and group assignments will be required. Students in the course will prepare to take the World Geography SOL assessment at the end of the course.

Advanced Placement Statistics
3192
1 Credit • Prerequisite: Algebra II

This college-level, introductory statistics course focuses on the major concepts and tools for collecting, analyzing, and reaching conclusions from data. The four main themes of the course are exploring data, planning a study, anticipating patterns, and making statistical inferences. Students will create and analyze data, consult, make decisions, and share results. The course is an excellent foundation for students pursuing careers in science, social science, mathematics, business, or engineering.
### Suggested Core Course Sequence

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*There is a Virginia Standards of Learning (SOL) exam associated with this course.

**Alternatives to Animal Dissection:** Students may complete an alternative to animal dissection. Please see your science teacher for additional information.

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**Earth Science – Grade 9**

**4211SB**

**Honors Earth Science**

**4213SB**

1 Credit

Earth Science is an introductory laboratory science course that covers astronomy, geology, oceanography, and meteorology. Investigations emphasize the social relevance of Earth Science ideas in such topics as pollution, weather control, nuclear testing, shrinking fossil fuel supplies, etc. An additional Honors Earth Science course is available for students with high interest and ability. This course has a Virginia SOL assessment.

**Earth Science II: Oceanography**

**4250SB**

1 Credit • Prerequisites: Earth Science and Biology

Oceanography is a survey course that introduces students to the four broad disciplines of marine science: chemical, physical, geological, and biological oceanography. Building on knowledge gained in Earth Science I, students will investigate tectonic processes and their role in shaping the ocean basins. Students will investigate the physical and chemical properties of the oceans and their interplay with the atmosphere, as well as their impact on coastal features and marine life. Emphasis will be placed on the Chesapeake Bay and its tributaries.

**Biology – Grade 10**

**4311SB**

**Honors Biology**

**4313SB**

1 Credit

Biology I is a laboratory science course in which students discover the parts and processes of living things and their interactions with each other through unifying concepts, such as cell structure and function, genetics, evolution, disease and wellness, and ecology. An additional Honors Biology course is available for students with high interest and ability. It is
recommended that students have a “B” average or better in previous science courses prior to taking Honors Biology. This course has a Virginia SOL assessment.

**Commonwealth Innovation (CI) - Art Foundations, Biology*, and Computer Information Systems**

*Honors Biology extension available*

**986CI**

1 Credit Fine Arts (Art Foundations)
1 Credit Science (Biology)
1 Credit CTE (Computer Information Systems)

This yearlong, interdisciplinary, team-taught course is designed to engage students using project-based learning. Students research and create group projects using interrelationships of the fine arts, science, technology, and entrepreneurship. Emphasis is on creative thinking, critical thinking, communication, and collaboration. Reflection, feedback, and revision are essential parts of this course. Students in this course will prepare to take the Biology SOL assessment at the end of the course. Students may also have an opportunity to pursue an Industry Credential by taking the Workplace Readiness Skills assessment at the conclusion of this course.

**The Nature Of Mankind**

*Honors Biology and English 10 extensions will be available*

**983HSPI**

1 Credit Science (Biology)
1 Credit English (English 10 or English 11)

This interdisciplinary, co-taught English/Biology course will combine concepts from Biology with aspects of written language to connect students to the natural world surrounding them. Students will be challenged to take a critical perspective in order to connect more deeply to concepts such as human health, sustainability, and scientific communication. Skills students will utilize include addressing community needs through creating and presenting proposals, writing and applying for grants and funding opportunities, and advertising. Students in this course will prepare to take the Biology SOL assessment at the end of the course. Honors Biology and English 10 extensions will be available.

**Biology II: Anatomy & Physiology**

*Prerequisites: Biology *

**4331SB**

1 Credit

Anatomy and Physiology introduces students to the structures and functions of the human body. The course focuses on each body system and the medical terminology associated with each system. This objective will be met through extensive laboratory investigations, including dissection of a representative mammal. These studies will provide an understanding of the interdependence of human body systems and provide a solid base for further studies and/or health care related career choices. It is recommended that students have a minimum grade of “C” in previous science courses and have taken chemistry.

**Commonwealth Innovation (CI) - Biology II: Anatomy & Physiology and Drawing**

*Prerequisites: Biology and Art Foundations *

**988CI**

1 Credit Science (Biology II: Anatomy & Physiology)
1 Credit Fine Arts (Drawing)

This course introduces students to the structures and functions of the human body through a study of visual observation, stressing both technical skills and individual expression. The course focuses on each body system and the medical terminology associated with each system through the lens of a medical illustrator. These objectives will be met through extensive laboratory investigations, including dissection of a representative mammal. Students will use a variety of drawing medias (graphite, charcoal, pen and ink, watercolor washes, oil pastels) with a focus on understanding the human body and movement of the human form. These studies will provide an understanding of the interdependence of human body systems and provide a solid base for further studies and/or health care-related career choices. Art history and criticism are integrated with appropriate units of study. It is recommended that students interested in taking this course received a “C” or better in Art Foundations and in previous science courses.
Biology II: Advance Survey Topics/Field Biology

Fall: 4319SB / 1 Credit
Spring: 4320SB / 1 Credit

Prerequisites: Biology & Earth Science or Biology & Chemistry

Fall and Spring Field Biology are two courses that are similar in approach, but differ in content. Each course addresses the effect of the seasons on the natural world and teaches students about the many components of natural ecosystems utilizing field techniques to monitor and assess their health and status. Plant and animal identification are emphasized as well as chemical, physical, and biological tests of environments. Students experience fieldwork on a regular basis, going outside as often as the weather allows and the topic demands. Research projects involving data collection and analysis of results are a component of this course, thus requiring a competency in math. It is recommended that students have a minimum grade of “C” in previous science courses, a love of the outdoors, and a willingness to go outside during any season. Students may take both courses if they wish to get the full field biology experience.

Advanced Placement Biology
4380
1 Credit • Prerequisite: Biology and Chemistry

AP Biology is the equivalent of a college-level Biology course. Instruction is focused on conceptual understanding that allows students to develop and the scientific reasoning skills necessary for designing and planning data collection, analysis, applying mathematical routines, and making connections across concepts. Topics of study include cell and molecular biology, energy relationships, structure and function of plants and animals, genetics, ecology, and evolution. This course is supplemented by selected readings in textbooks, periodicals, and laboratory investigations.

Chemistry
4409SB
1 Credit • Prerequisite: Algebra I

Chemistry I is a laboratory course of inorganic chemistry suggested for the student planning to pursue a four-year college degree. A solid mathematical background is needed for solving word problems and analyzing laboratory data. Topics include atomic structure, bonding, chemical reactions, kinetic molecular theory, stoichiometry, and acid-base chemistry. It is recommended that students have a “C” in previous math and science courses and have passed Algebra, Functions & Data Analysis (AFDA) or Algebra II. This course has a Virginia SOL assessment.

Advanced Placement Chemistry
4411 & 4411-1
1 Credit Science
1 Credit Elective

Prerequisite: Algebra II (Biology is also highly recommended)
Corequisite: Student must be concurrently enrolled in AP Chemistry Lab

AP Chemistry/AP Chemistry Laboratory is a daily two-semester course equivalent to the first year of college-level Introductory Chemistry. Upon successful completion of the AP Exam, students may receive up to two semesters of college credit. Instruction is focused on conceptual understanding that allows students to develop and the scientific reasoning skills necessary for designing and planning data collection, analysis, applying mathematical routines, and making connections across concepts. Topics of study include structure of matter, bonding and intermolecular forces, chemical reactions, kinetics, thermodynamics, and chemical equilibrium. This course includes a strong emphasis on laboratory investigations. Mathematical applications are a large component of the course. Students who have passed Functions/Trigonometry or are co-enrolled in Functions/Trigonometry tend to be more successful.
Advanced Placement Environmental Science
4270SB
1 Credit • Prerequisite: Biology, Chemistry, & Algebra II (Earth Science is also highly recommended)

Students will explore and investigate the interrelationships of the natural world, identify and analyze environmental problems, both natural and human-made, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving and/or preventing them. This course is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. The course will focus on a good comprehension and understanding of collecting data in the field and relating it to the human impact on the environment. Daily instruction will consist of lecture, discussion, hands-on lab work, collaborative group work, written reaction papers, demonstrations, in-class assignments, computer simulations, and homework. A large portion of the class will be lab work; all lab work will require a written component. A minimum of one class period or its equivalent per week is spent in laboratory and/or fieldwork.

Physics
4509SB
1 Credit • Prerequisite: Algebra II or AFDA

This course provides a systematic introduction to the main principles of physics and emphasizes the development of conceptual understanding and problem-solving ability using Algebra. Topics include mechanics, energy, wave theory, electricity, and magnetism.

Commonwealth Innovation (CI) - Algebra, Functions, & Data Analysis (AFDA) and Physics
984CI
1 Credit Mathematics (Algebra, Functions, and Data Analysis-AFDA)
1 Credit Science (Physics)
Prerequisite: Algebra I

This interdisciplinary, co-taught AFDA/Physics course will investigate scientific method and data collection/analysis skills, linear functions and motion, projectiles and quadratics, energy and systems of equations, and logarithms and sound. In addition to traditional classroom learning, each unit will include a project that will utilize digital design tools to create three-dimensional models. This course is ideal for students who have interest in, or experience with, principles of engineering or engineering design.

Advanced Placement Physics I
4573SB
1 Credit • Prerequisite: Algebra II

AP Physics I is an introductory, algebra-based Physics course equivalent to a first semester college level course. It is designed to develop advanced inquiry and scientific reasoning skills necessary for designing and planning data collection, analysis, applying mathematical routines, and making connections across concepts. AP Physics I introduces the main principles of physics: Newtonian mechanics; work, energy, and power; mechanical waves and sounds; and introduction to electric circuits. This course is supplemented by selected readings in textbooks and periodicals, and laboratory investigations.

Advanced Placement Physics II
4574SB
1 Credit • Prerequisite: Advanced Placement Physics I

AP Physics II is the equivalent of a second semester algebra-based college level course. AP Physics is designed to develop advanced inquiry and scientific reasoning skills necessary for designing and planning data collection, analysis, applying mathematical routines, and making connections across concepts. AP Physics II concepts include fluid mechanics, thermodynamics, electricity and magnetism, optics, and atomic and nuclear physics. This course is supplemented by selected readings in textbooks and periodicals, and laboratory investigations.
### SOCIAL STUDIES

#### Suggested Core Course Sequence

<table>
<thead>
<tr>
<th>Grade</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th</td>
<td>World History &amp; Geography I to 1500 AD*</td>
<td>Word History &amp; Geography II: 1500 AD to present*</td>
<td>Commonwealth Innovation - World History II*, English 9, and Speech</td>
</tr>
<tr>
<td>10th</td>
<td>World Geography*</td>
<td>AP Human Geography*</td>
<td>Commonwealth Innovation - Probability &amp; Statistics and World Geography*</td>
</tr>
<tr>
<td>11th</td>
<td>VA &amp; US History*</td>
<td>AP US History*</td>
<td>Commonwealth Innovation - VA/U.S. History* &amp; English 11</td>
</tr>
</tbody>
</table>

*There is a Virginia Standards of Learning (SOL) exam associated with this course.

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**World History & Geography to 1500 A.D. (World History I) – Grade 9**  
2219SB  
1 Credit  

In World History and Geography to 1500 A.D., students will explore early human societies beginning with hunters and gatherers; progressing through the rise and fall of major world empires including Egypt, Greece, Rome, and China; examining the Medieval Era; and concluding with the European Renaissance. Students will investigate similarities and differences among ancient river civilizations such as those along the Nile, Tigris-Euphrates, Huang He, and Indus Rivers. Students study the personalities who commanded great empires and explore the lives of everyday people. Varieties of resources are used to analyze events including art, music, literature, and technology.

*Students may select either this course or World History and Geography: 1500 A.D. to the Present to fulfill their World History requirement. Only one of the two courses is required.*

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**World History & Geography: 1500 A.D. to the Present (World History II) – Grade 9**  
2221SB  
1 Credit  

World History and Geography: 1500 A.D. to the Present is a historical survey course designed to help students understand people and their achievements from the late Renaissance to the present, including Western Civilizations, as well as those of Asia, Africa, and the Middle East. Topics include the Reformation, the Age of Discovery, the Industrial Revolution, World War I and II, the Cold War era, and contemporary times. Emphasis is placed on similarities, differences, and changes and why they occur in societies. Students will read about the personalities of well-known historical leaders, and study the lives of everyday people. Students will use a variety of resources to analyze events including art, music, literature, and technology.

*Students may select either this course or World History and Geography to 1500 A.D. to fulfill their World History requirement. Only one of the two courses is required.*

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**Commonwealth Innovation (CI) - English 9*, World History II, and Speech – Grade 9**  
981CI  
1 Credit English (English 9) *Honors English 9 Extension Available  
1 Credit Social Studies (World History II)  
1 Credit Elective (Speech)  

This interdisciplinary, co-taught course will encourage and enable students to participate in sustained, collaborative inquiry within a global context. Students will reflect upon the orientation of humanities topics in space and time and produce genuine solutions to real-world issues on community, national, and global scales. Students will research, write, and deliver personal, informative, persuasive, and impromptu speeches as well as conduct interviews, prepare interpretive readings, and learn storytelling. Students should have computer skills capable of independent research to complete group-based, project-based learning. Students in this course will prepare to take the World History II SOL assessment at the end of the course.
World Geography – Grade 10  
2210SB  
1 Credit  

World Geography is the study of human-environment relationships with a special emphasis on cultural regions in Asia, Latin America, Africa, and the Middle East. Using a variety of tools and technologies, students will examine current issues from a geographic perspective. Hands-on activities will be used to analyze issues and apply knowledge to propose ideas for solving problems, both locally and globally. This course is recommended for Grade 10 as part of the social studies scope and sequence.

Commonwealth Innovation (CI) - Probability & Statistics and World Geography – Grade 10  
982CI  
1 Credit Social Studies (World Geography)  
1 Credit Mathematics (Probability & Statistics)  

Prerequisite: Algebra, Functions, and Data Analysis (AFDA) or Algebra II  

This interdisciplinary, co-taught social studies/math course will encourage and enable students to explore human-environmental interactions, world conflicts, and current events through graphical and statistical analysis. A variety of individual and group assignments will be required. Students in this course will prepare to take the World Geography SOL assessment at the end of the course.

Advanced Placement Human Geography – Grade 10  
2212  
1 Credit  

This advanced-level course is open to students in Grades 10, 11, or 12 and may be taken in place of the regular World Geography to meet the graduation requirements for social studies. Advanced Placement Human Geography is a rigorous examination of essential concepts in the field of Human Geography, accomplished through a challenging study of pressing contemporary issues related to population, organization of political boundaries, industrialization and economic development, cities and urban land use, and more. Data from organizations such as the Census Bureau, the World Bank, and the United Nations will be studied. Students participate in field studies, keep journals, and conduct original research; significant use of computer labs will be necessary. Strong writing and research skills are recommended for this course. This course is designed to prepare students for the Advanced Placement examination in Human Geography.

Virginia & U.S. History – Grade 11  
2360SB  
1 Credit  

Virginia and U.S. History offers a general study of the American nation from early exploration to the present day. Students evaluate events from the viewpoint of the historical era, from the perspective of today’s knowledge and values, and analyze how past events have contributed to our country as it is today.

Commonwealth Innovation (CI) - Virginia & U.S. History and English 11*  
987CI  
1 Credit Social Studies (Virginia & U.S. History)  
1 Credit English (English 11) *Honors English 11 extension available  

Prerequisite: English 9 & 10  

This yearlong, interdisciplinary, team-taught course is designed to engage students in a thorough study of American History and the arts using project-based learning. Through the interrelationships of the humanities; fine arts; and the social, intellectual, and political history of the United States, students explore and examine topics using a thematic approach. A variety of individual and groups creative assignments will be completed with an emphasis on creative thinking, critical thinking, communication, and collaboration. Reflection, feedback, and revision are essential parts of this course. Students in this course will prepare to take both the Reading SOL and the Virginia & U.S. History SOL assessments at the end of the course.
Advanced Placement U.S. History – Grade 11
2319
1 Credit
This course focuses on developing student understanding of American history from approximately 1491 to the present. Students will investigate the content of U.S. history for significant events, individuals, developments, and processes in nine historical periods, and develop and use the same thinking skills and methods employed by historians when they study the past. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places.

Virginia & U.S. Government – Grade 12
2440SB
1 Credit • Prerequisite: Virginia and U.S. History
Virginia and U.S. Government emphasizes the function and theory of government and the principles on which the state and U.S. governments are based. These include constitutional principles such as the rights and responsibilities of citizenship, the political culture, the policy-making process at each level of government, and the operations of the U.S. market economy. U.S. foreign policy is examined as well as comparisons of American ideology with that of communism, socialism, and fascism. Current political problems at the national and state levels are discussed as an integral part of the course.

Commonwealth Innovation (CI) - Virginia & U.S. Government, Law & Society and Discrete Math – Grade 12
990CI
1 Credit Social Studies (Virginia & U.S. Government)
1 Credit Elective (Law & Society)
1 Credit Math (Discrete Math)
Prerequisite: Virginia & US History and Algebra II
This course is a co-taught, interdisciplinary course that will investigate how government, law, and mathematics interact to create a society. Students will examine policies and regulations, both historic and current, through the lens of civic rights and responsibilities. Students will apply discrete mathematics to democratic problems, determining whether a solution exists, how many solutions exist, and what the best solution may be. This course is ideal for students who have interest in politics and/or technology.

Advanced Placement Government & Politics: U.S. – Grade 12
2445
1 Credit
This is an advanced course available to seniors. The curriculum consists of a study of American Government that includes extensive reading assignments, knowledge and use of research tools, production of research paper(s), problem solving, and evaluation of information sources. The course fulfills the state requirement for graduation and is recommended for seniors seeking the challenge of a college-level course. This course is designed to prepare students for the Advanced Placement examination in United States Government.

The following courses are electives and do not satisfy the diploma requirements in the area of Social Studies.

Advanced Placement European History
2399
1 Credit
Students investigate significant events, individuals, developments, and processes in four historical periods from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing historical evidence; contextualization; comparison; causation; change and continuity over time; and argument development. The course also provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; individual and society; and national and European identity.
Advanced Placement Government & Politics: Comparative – Grade 11 & 12
2446SB
1 Credit
This is a challenging college-level course available to juniors and seniors. The curriculum consists of an in-depth, critical, examination of different governments including those of Great Britain, Russia, France, China, and Mexico. It includes extensive college-level writing and reading assignments, knowledge and use of research tools, production of formal research paper(s), problem solving, and reflective evaluation of information sources. The course is an elective course and does not fulfill the state requirement for graduation. This course is designed to prepare students for the Advanced Placement exam in Comparative Government.

Advanced Placement Economics
2804
1 Credit
AP Economics is a college-level introductory course in the principles of economics. The challenging design of the course is recommended for students with a motivating interest in business administration or entrepreneurship. Emphasis will be on micro-and macroeconomics, the study of the 10 basic principles, buyer and seller market forces, the economics of the public sector, the behavior of firms, the organization of industry, and the economics of labor markets. This course prepares students for the Advanced Placement examination in either Microeconomics or Macroeconomics.

Humanities: Global
1515SB
1 Credit
This course explores the impact of technology on the social and cultural history of the modern world. Students working independently and in groups examine history and art to analyze and evaluate interconnecting events shaping contemporary society. Students will identify issues created by technology and work to suggest potential solutions. Students must possess strong writing, analytical, and critical thinking skills.

Humanities: United States
1516SB
1 Credit • Prerequisites: World History, World Geography, and enrollment in U.S. History
This course examines change in America at the turn of two centuries by analyzing and evaluating elements of 19th and 20th century society. Through an exploration of art, medicine, literature, music, and social trends students examine patterns and parallels reflecting the impact of technology on the social and cultural history of America.

Law and Debate
2421SB
1 Credit
This course will introduce students to the federal and state judicial systems, Virginia state law, elements of law, speech and debate techniques, and civil and criminal law. The mock trial component will demand that students present their own prepared cases for court acting as attorneys, witnesses, and defendants.

Law and Society
2420SB
1 Credit
This engaging course aims to promote a more detailed understanding of the laws, rules, and regulations that guide our contemporary society. Students will examine the inside workings of the American legal system in order to foster a more reflective and critical understanding of each citizen’s role in a democratic society. It will offer practical applications for everyday life and allow active participation and field experiences with local agencies and the court system. Emphasis will be placed on civic responsibilities and rights.
Sociology
2500SB
1 Credit
Sociology is the study of human behavior in society. The focus of this course is the shaping of human behavior by groups in society. The topics include personality development, deviance and crime, family, social class, gender, race, and social movements. There is also an emphasis on research techniques and current statistical data. This course provides students with a unique opportunity to view the institutions of American society from different sociological perspectives. This course is recommended for students who have completed a geography course.

U.S. and World Affairs
2810SB
1 Credit
U.S. & World Affairs is an elective course that focuses on the relationships between national and international events while strengthening geography skills. Course topics include the roots of aggression, causes of wars, United Nations, and current world conflicts. Conflict resolution, group work, and weekly current events are major components of the course.

Advanced Placement Psychology
2902
1 Credit
The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental process 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 ethics and methods psychologists use in their science and practice.

WORLD LANGUAGES

World Language Sampler
5002SB
1 Credit
This course is a project-based, hands-on class that will provide basic language instruction in the languages presented. It will allow students to gain basic conversational skills about topics relevant to their daily lives. A minimum of two world languages will be presented. It will allow students to compare and contrast the languages studied with English, learn about the origins of various languages and gain an understanding of cultural perspectives. Languages may include Spanish, French, German, Latin, or other modern languages. Successful completion of this course fulfills the WJCC graduation requirement and provides an introduction that allows students to continue their study for credit in Level I of a world language.

American Sign Language I
5990SB
1 Credit
Students will learn 1,000 signs and acquire knowledge of the manual alphabet. Students learn the language through lessons presented in context and through meaningful and experimental activities. Cultural awareness and cross-cultural adjustment skills are major components of this course. Students are introduced to Deaf culture, the history of ASL and the education of Deaf people. It is recommended that students have a “C” or above before proceeding to the next level.

American Sign Language II
5995SB
1 Credit • Prerequisite: American Sign Language I
Students continue to increase their ASL skills. They will add to their vocabulary and increase proficiency in grammatical features and conversational skills. Knowledge of and sensitivity to the Deaf culture and community will continue to be emphasized. Students will be encouraged to interact with Deaf people in social contexts.
**American Sign Language III**
5997SB

1 Credit • Prerequisite: American Sign Language II

Students will continue to add vocabulary and idiomatic expressions to their pre-existing vocabulary base. Language functions and increasingly difficult grammatical structures are learned in the context of everyday interactions and social relationships. Level III progresses to impersonal information, things that are not present, and abstract ideas. Role-play situations, which predict everyday deaf-hearing encounters, are used for the development of cultural awareness and cross-cultural adjustment skills. Students also investigate career opportunities associated with ASL and Deaf Culture.

**American Sign Language IV**
5998SB

1 Credit • Prerequisite: American Sign Language III

Students engaging in this course will experience a more advanced study of American Sign Language. This class continues with an interactive approach: developing sign; improving expressive and receptive skills; and gaining more awareness of the Deaf community. This course builds on skills previously learned by adding more complex ASL grammatical features and vocabulary, short stories, narratives, and dialogues. A key goal for this course is for students to achieve a level of competency in ASL. Students will expand on their signing skills through debate, exchanging information, and expressing ideas, opinions, and preferences in front of an audience inside and outside of the classroom setting.

**French I**
5110SB

1 Credit

This course enables the modern language student to develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students will actively participate in contextualized activities to improve all four language domains: listening, speaking, reading, and writing – focusing on the ability to communicate orally and in writing. Emphasis is placed on comparing and contrasting the culture of French-speaking peoples with American culture.

**French II**
5120SB

1 Credit • Prerequisite: French I

Modern language students will continue to develop proficiency in all four language skills: listening, speaking, reading, and writing. Students will actively participate in contextualized activities and use all three communicative modes (interpretive, interpersonal, and presentational) to increase their ability to communicate orally and in writing. Students learn to function in real-life situations using more complex sentences and language structures. Familiarity with the culture of French-speaking peoples is increased through comparisons and connections to American culture.

**French III**
5131SB

1 Credit • Prerequisite: French II

This course focuses on the use of the language for active communication. Emphasis is placed on developing comprehension, refining writing skills, increasing speaking facility, and introducing more complex structures. At this level, students comprehend the main ideas of the authentic materials that they read, hear, and are able to identify significant details when the topics are familiar. Modern language students will participate in contextualized activities that integrate all skills: listening, reading, writing, and speaking – and use all three communicative modes (interpretive, interpersonal, and presentational) to increase their ability to communicate orally and in writing. Students will explore the culture of French-speaking peoples through the use of video, authentic readings, and audio materials.
French IV
5141SB
1 Credit • Prerequisite: French III
Modern language students will develop more advanced communication skills in all four areas: listening, speaking, reading, and writing with an emphasis on the ability to interact orally and in writing. 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 as well as describe, summarize, and discuss selected upper-level themes and topics. Students gain greater insights into culture through authentic reading selections at this level and will continue to be exposed to authentic materials in order to develop higher-level thinking skills in the target language. The primary language spoken at this level is French.

Advanced French Conversation and Composition
5180SB
1 Credit • Prerequisite: French IV
This course will give the advanced student the opportunity to practice and perfect their practical abilities to speak and write in French and will stress oral and written communication and proficiency. Students will acquire information from authentic sources in French and will be asked to function in many authentic speaking situations in the class. Students will continue to develop strong communicative ability in French in (interpretive, interpersonal, and presentational) modes and strive to produce French comprehensible to native speakers in a variety of settings, discourse, topics, and registers.

French Cinema
5185SB
1 Credit • Prerequisite: Advanced French Conversation and Composition
This course will provide students with the opportunity to study the history and development of the Francophone world through film. The actual study of the selected movies will expose the students to the history and techniques of French filmmaking (beginning with the Lumiere Brothers), to the culture of the Francophone world, to the historical perspective of modern French civilization, and to the language spoken by native speakers. An important component of this course is to integrate linguistic structures and vocabulary into the daily discussions and follow-up activities through both oral and written assignments and evaluations. The course is conducted solely in French.

Advanced Placement French Language
5170SB
1 Credit • Prerequisite: Advanced French Conversation and Composition
This rigorous college-level course is designed for students who wish to further refine all communicative skills in preparation for the AP French language examination. Students will participate in activities that integrate several different skills enabling them to: understand French in various contexts; read and interpret literary texts; and express themselves in a more sophisticated spoken and written form. The course is conducted solely in French.

German I
5210SB
1 Credit
This course enables the student to develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students will actively participate in contextualized activities to improve all four language domains: listening, speaking, reading and writing – focusing on the ability to communicate orally and in writing. Emphasis is placed on comparing and contrasting the culture of German-speaking peoples with American culture.

German II
5220SB
1 Credit • Prerequisite: German I
Modern language students continue to develop proficiency in all four language skills: listening, speaking, reading, and
writing. Students will actively participate in contextualized activities and use all three communicative modes (interpretive, interpersonal, and presentational) to increase their ability to communicate orally and in writing. Students learn to function in real-life situations using more complex sentences and language structures. Familiarity with the culture of German-speaking peoples is increased through comparisons and connections to American culture.

**German III**  
*5231SB*  
*1 Credit • Prerequisite: German II*  
This course focuses on the use of the language for active communication. Emphasis is placed on developing comprehension, refining writing skills, increasing speaking facility, and introducing more complex structures. At this level, modern language 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 will participate in contextualized activities that integrate all skills: listening, reading, writing and speaking – and use all three communicative modes (interpretive, interpersonal, and presentational) to increase their ability to communicate orally and in writing. Students will continue to explore German culture through the use of videos, authentic readings, and audio materials.

**German IV**  
*5241SB*  
*1 Credit • Prerequisite: German III*  
Students develop more advanced communication skills in all four areas: listening, speaking, reading, and writing – with emphasis on the ability to interact orally and in writing. Modern language 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 as well as describe, summarize, and discuss selected upper-level themes and topics. Students gain greater insights into culture through authentic reading selections at this level and will continue to be exposed to authentic materials in order to develop higher-level thinking skills in the target language. The primary language spoken at this level is German.

**Advanced German Conversation and Composition**  
*5280SB*  
*1 Credit • Prerequisite: German IV*  
This course will give the advanced student the opportunity to practice and perfect their practical abilities to speak and write in German and will stress oral and written communication and proficiency. Students will acquire information from authentic sources in German and will be asked to function in many authentic speaking situations in the class. Students will continue to develop strong communicative ability in German in (interpretive, interpersonal and presentational) modes and strive to produce German comprehensible to native speakers in a variety of settings, discourse, topics, and registers. Students will explore cultural perspectives of German-speaking peoples. This course is conducted solely in German.

**German Cinema**  
*5285SB*  
*1 Credit • Prerequisite: Advanced German Conversation and Composition*  
This course will provide students with the opportunity to study the history and development of Germanic culture through film. Through immersions in discussions and analyses of diverse literary and cultural themes, the student will gain a great in-depth knowledge of the language and culture of German-speaking peoples. An important component of this course is to integrate linguistic structures and vocabulary into the daily discussions and follow-up activities through both oral and written assignments and evaluations. The course will be conducted solely in German with special emphasis placed on attaining a high degree of fluency.

**Advanced Placement German Language**  
*5270SB*  
*1 Credit • Prerequisite: Advanced German Conversation and Composition*  
This rigorous college-level course is designed for students who wish to further refine all communicative skills in preparation for the AP German language examination. Students will participate in activities that integrate several different skills enabling
them to: understand German in various contexts; read and interpret literary texts; and express themselves in a more sophisticated spoken and written form. The course is conducted solely in German.

Latin I
5310SB
1 Credit
This course provides students the fundamental principles of the language as well as an understanding of the history, culture and mythology of the classical world. These provide the foundation and inspiration for many of the topics addressed in social studies and fine arts courses. Emphasis will be upon developing comprehension and critical thinking skills. Latin students can expect to see significant benefits in vocabulary growth, reading comprehension skills, and pattern recognition.

Latin II
5320SB
1 Credit • Prerequisite: Latin I
Students continue to develop skills learned in Latin I. These skills provide the opportunity for students to engage with the cultural context of the Roman people and discuss issues raised by un-adapted historic texts. Many of the issues, such as violence as entertainment, social class divisions, and cultural assimilation, continue to challenge us today.

Latin III
5331SB
1 Credit • Prerequisite: Latin II
Students will refine skills learned in Latin I & II. Students will be able to understand increasingly complex texts and will continue to discuss issues the Romans faced, many of which are still hotly debated today. In addition, students will explore Roman celebrations of major life events and make connections to modern customs.

Latin IV
5341SB
1 Credit • Prerequisite: Latin III
Latin IV is an introduction to Latin Prose and Poetry. This rigorous course begins the Advanced Placement curriculum and provides a significant academic challenge to college-bound students. Students can expect to engage with meaningful and challenging literature from the peak of the Roman civilization. Assignments require in-depth analysis and application of literary works to contemporary life through discussion, writing, independent study, and group work.

Advanced Placement Latin: Vergil
5370SB
1 Credit • Prerequisites: Latin IV
AP Latin concludes the study of the Latin curriculum. Students continue to focus their attention on the themes of literary genre and style, Roman values, war and empire, leadership, view of non-Romans, history and memory, and human beings and the gods. Throughout the exploration of these themes, students are expected to accurately translate authentic Roman poetry and prose and analyze literary texts in clear, coherent written English arguments supported by textual examples. Assignments require in-depth analysis and application of literary works to contemporary life through discussion, writing, independent study, and group work. After the AP exam, students will have the opportunity to complete a self-paced project focused on art and sculptures of the classical world.

Spanish I
5510SB
1 Credit
This course enables a student to develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students will actively participate in contextualized activities using all three communicative modes (interpretive, interpersonal, and presentational) across all four language domains: listening, speaking, reading, and writing – focusing on the ability to communicate orally and in writing. Emphasis is placed on comparing and contrasting the culture of Spanish-speaking peoples with American culture.
Spanish II
5520SB
1 Credit • Prerequisite: Spanish I
Students continue to develop proficiency in all four language domains: listening, speaking, reading, and writing. Students will actively participate in contextualized activities and use all three communicative modes (interpretive, interpersonal, and presentational) to increase their ability to communicate orally and in writing. Students learn to function in real-life situations using more complex sentences and language structures. Familiarity with the culture of Spanish-speaking peoples is increased through comparisons and connections to American culture.

Spanish III
5531SB
1 Credit • Prerequisite: Spanish II
This course focuses on the use of the language for active communication. Emphasis is placed on developing comprehension, refining writing skills, increasing speaking facility, and introducing more complex structures. 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 will participate in contextualized activities that integrate all skills: listening, reading, writing, and speaking — and use all three communicative modes (interpretive, interpersonal, and presentational) to increase their ability to communicate orally and in writing. Students continue to explore Hispanic culture through the use of videos, authentic readings, and audio materials. The primary language spoken at this level is Spanish.

Spanish IV
5541SB
1 Credit • Prerequisite: Spanish III
Students develop more advanced communication skills in all four areas: listening, speaking, reading, and writing — with emphasis on the ability to interact orally and in writing. 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 as well as describe, summarize, and discuss selected upper-level themes and topics. Students gain greater insights into culture through authentic reading selections at this level and will continue to be exposed to authentic materials in order to develop higher-level thinking skills in Spanish. This course is conducted in Spanish.

Advanced Spanish Conversation and Composition
5580SB
1 Credit • Prerequisite: Spanish IV
This course will give the advanced student the opportunity to practice and perfect their practical abilities to speak and write in Spanish and will stress oral and written communication and proficiency. Students will acquire information from authentic sources in Spanish and will be asked to function in many authentic speaking situations in the class. Students will continue to develop strong communicative ability in Spanish in all three communicative modes (interpretive, interpersonal, and presentational) and strive to produce Spanish comprehensible to native speakers in a variety of settings, discourse, topics, and registers. Students will explore cultural perspectives of Spanish-speaking peoples. This course is conducted solely in Spanish.

Spanish Cinema
5586SB
1 Credit • Prerequisite: Advanced Spanish Conversation and Composition
This course is designed to immerse the student in real-life situations taken from the Spanish-speaking world. Self-expression is stimulated through discussions and analysis of diverse literary and cultural themes. The student will gain a greater in-depth knowledge of the language and culture of Spanish-speaking peoples. The movies chosen for this course are classics of Hispanic literature and culture and include mature themes. Special emphasis will be placed on attaining an ever greater fluency. This course is taught solely in Spanish.
Advanced Placement Spanish Language
5570SB
1 Credit • Prerequisite: Advanced Spanish Conversation and Composition
This rigorous college-level course is designed for students who wish to further refine all communicative skills in preparation for the AP Spanish language examination. Students will participate in activities that integrate several different skills enabling them to: understand Spanish in various contexts; read and interpret literary texts; and express themselves in a more sophisticated spoken and written form. The course is conducted solely in Spanish.

Advanced Placement Spanish Literature
5575
1 Credit • Prerequisite: Advanced Placement Spanish Language
This course will expose the students to representative works of Spanish literature as stipulated by the AP Spanish Literature Program of College Board. Students will read prose and verse and interpret, analyze, and critically discuss literary works from the Middle Ages through the 20th Century. Formulation and expression of critical opinions and judgments in correct oral and written Spanish are emphasized. Students will communicate effectively and with mastery in writing and speaking in preparation for the AP Spanish Literature examination. This course is conducted solely in Spanish.

FINE ARTS

Arts

Art Foundations
9120SB
1 Credit
Art Foundations is an introductory course that serves as a prerequisite to all upper level art courses at the high school. Students are introduced to the techniques and methods of creating and studying works of art. Fundamentals of pencil drawing and composition, color theory, and design in painting and printmaking are included. Ceramics, sculpture, crafts, art history, and career opportunities are explored. A sketchbook and notebook are required. There is a fee associated with this course.

Commonwealth Innovation (CI) - Art Foundations, Biology*, and Computer Information Systems
986CI
1 Credit Fine Arts (Art Foundations)
1 Credit Science (Biology) *Honors Biology extension available
1 Credit CTE (Computer Information Systems)
This yearlong, interdisciplinary, team-taught course is designed to engage students using project-based learning. Students research and create group projects using interrelationships of the fine arts, science, technology, and entrepreneurship. Emphasis is on creative thinking, critical thinking, communication, and collaboration. Reflection, feedback, and revision are essential parts of this course. Students in this course will prepare to take the Biology SOL assessment at the end of the course. Students may also have an opportunity to pursue an Industry Credential by taking the Workplace Readiness Skills assessment at the conclusion of this course.

Drawing
9130SB
1 Credit • Prerequisite: Art Foundations
A study of visual observation through drawing, stressing both technical skills and individual expression, is explored in graphite, charcoal, and Conté pencil. Mixed media and color drawings using ink washes, watercolor color pencils, oil pastels, and markers will also be included. Art history and criticism are integrated with appropriate units of study. Sketchbooks are required. A grade of "C" or higher in Art Foundations is recommended. There is a fee associated with this course.
Commonwealth Innovation (CI) - Biology II: Anatomy & Physiology and Drawing
988CI
1 Credit Science (Biology II: Anatomy & Physiology)
1 Credit Fine Arts (Drawing)

Prerequisites: Biology and Art Foundations

This course introduces students to the structures and functions of the human body through a study of visual observation, stressing both technical skills and individual expression. The course focuses on each body system and the medical terminology associated with each system through the lens of a medical illustrator. These objectives will be met through extensive laboratory investigations, including dissection of a representative mammal. Students will use a variety of drawing medias (graphite, charcoal, pen and ink, watercolor washes, oil pastels) with a focus on understanding the human body and movement of the human form. These studies will provide an understanding of the interdependence of human body systems and provide a solid base for further studies and/or health care-related career choices. Art history and criticism are integrated with appropriate units of study. It is recommended that students interested in taking this course received a “C” or better in Art Foundations and in previous science courses.

Painting and Printmaking
9147SB

1 Credit • Prerequisite: Art Foundations

Students will receive technical instruction in the use of acrylics, watercolors, and oil paints. A variety of printmaking techniques will also be explored. Color theory and composition are emphasized. Twentieth century painters and their influences on society will be discussed. Painting and Printmaking is specifically designed for improving drawing and design skills. A grade of “C” or higher in Art Foundations is recommended. There is a fee associated with this course.

Photography and Communication Design
9193SB

1 Credit/Materials fee • Prerequisite: A grade of “C” or higher in Art Foundations

Students will receive instruction in digital and traditional 35mm photography. Adobe Photoshop applications, film development, and darkroom procedures will be taught. This course is specifically designed for improving visual skills. Students must have access to their own 35 mm or digital camera. There is a fee associated with this course.

Materials Studies
9161SB

1 Credit • Prerequisite: Art Foundations

Students will receive instruction in the technical skills of planning, designing, and creating original works of art in a wide variety of media such as fibers, ceramics, wood, metal, and glass. This course is specifically designed for improving design and technical skills. A grade of “C” or higher in Art Foundations is recommended. There is a fee associated with this course.

Ceramics
9160SB

1 Credit • Prerequisite: Art Foundations

Ceramics will be interspersed with pottery and sculpture to allow coverage of basic hand building, wheel throwing, and surface treatments. The techniques of additive, subtractive, and relief sculpture may be explored through a variety of materials. The history of ceramic development, as well as the study of modern sculpture, and the elements and principles of 3D design will be integrated with appropriate units of study. A grade of “C” or higher in Art Foundations is recommended. There is a fee associated with this course.
Portfolio Art I
9137SB Portfolio Art I/Drawing
9138SB Portfolio Art I/2-D Design
9139SB Portfolio Art I/3-D Design
1 Credit/$35 Materials fee

Prerequisites:
Portfolio Art I/Drawing: Art Foundations, Drawing, and one additional art elective
Portfolio Art I/2-D Design: Art Foundations, choice of Drawing, Painting and Printmaking, or Photography, and one art elective
Portfolio Art I/3-D Design: Art Foundations, Ceramics and Sculpture, and one additional art elective

These courses are for students with well-developed art skills seriously interested in developing a portfolio suitable for college entrance. They require a high level of motivation, creativity, and independent thinking. The ability to observe, execute, and articulate a variety of visual problems is developed through studio work and critiques. Criteria set by The College Board will be followed. All portfolio options are equivalent. The course may be repeated for one additional credit with a different concentration.

Portfolio Art II
9142SB Portfolio Art II/Drawing
9143SB Portfolio Art II/2-D Design
9144SB Portfolio Art II/3-D Design
1 Credit/$35 Materials fee

Prerequisites:
Portfolio Art II/Drawing: Portfolio Art I with a concentration in Drawing
Portfolio Art II/2-D Design: Portfolio Art I with a concentration in 2-D Design
Portfolio Art II/3-D Design: Portfolio Art I with a concentration in 3-D Design

These courses are a continuation of Portfolio Art I with the emphasis placed on expanding the quality of artwork, individual exploration, and developing a concentration in subject matter and media. Criteria set by The College Board will be followed. All portfolio options are equivalent. The course may be repeated for one additional credit with a different concentration. Note: Portfolio Art II is optional, but highly recommended for students to more fully develop their portfolios. Students may go from Portfolio Art I directly into Advanced Placement Studio Art.

Advanced Placement Studio Art
9148SB AP Studio Art/Drawing
9149SB AP Studio Art/2-D Design
9150SB AP Studio Art/3-D Design
1 Credit/$35 Materials fee

Prerequisites:
AP Studio Art Drawing: Portfolio Art I with a concentration in Drawing
AP Studio Art/2-D Design: Portfolio Art I with a concentration in 2-D Design
AP Studio Art/3-D Design: Portfolio Art I with a concentration in 3-D Design

These courses address a broad interpretation of drawing, 2-D design, or 3-D design issues. A variety of approaches to representations, abstraction, and expression may be part of the student’s portfolio. Criteria set by the College Board will be followed. Original works, specific sets of slides, and written commentary will be sent to The College Board for adjudication in May. All portfolio options carry equal weight. The course may be repeated for one additional credit with a different concentration.
The following course is an elective and does not satisfy the diploma requirement in the area of Fine Arts.

**Advanced Placement Art History – Grades 11-12**  
**9151**  
**1 Credit**

AP Art History is designed to prepare students for the AP Art History examination. The class begins in the ancient world and continues to contemporary day art works and movements. The first half of the course explores art from the Near East to the Early Renaissance. The second part explores art from the High Renaissance to modern day. The history of art is examined through themes, reading, art production, lecture, outline questions, flashcards, games, activities, videos and research. This course requires a high degree of commitment to academic work. Successful completion of Art Foundations recommended but not required.

**Music**

**Music Appreciation**  
**9234SB**  
**1 Credit**

Music Appreciation is a non-performing introductory music course with novice students wishing to earn a fine arts credit in music. The course is designed to provide the beginning music listener basic skills to evaluate and appreciate varied forms of music. The elements of music construction such as melody, harmony, and form will be discussed followed by a study of the evolution of music from classical music traditions to modern trends and styles. The majority of the class will involve listening to recordings and live performances to develop an appreciation for all forms of music.

**Advanced Placement Music Theory**  
**9225SB**  
**1 Credit**

AP Music Theory is an advanced music course for those students wishing to prepare for the AP examination in music theory. The course will develop the student’s ability to recognize, understand and describe the basic materials and processes that are heard or presented in a score. Student achievement of this goal will be through the development and integration of aural, sight-singing, written, compositional, and analytical skills through listening, performance, written, creative, and analytical exercises.

**Intermediate Winds and Percussion**  
**9333**  
**1 Credit • Prerequisite: Audition or consent of Instructor**

This non-performing class of mixed instruments emphasizes attainment of the necessary technical and musical skills to transfer to the Advanced Band. It also serves those students unable to attend the extra rehearsals and performances of the Advanced Band. Students who are currently in another band class and would like to learn a new instrument are also accepted with the consent of the director. Students who use WJCC instruments are assessed a fee per semester.

**Advanced Band**  
**9334**  
**1 Credit • Prerequisite: Audition or consent of the Director**

Consisting of woodwinds, brass, and percussion, this class emphasizes detailed work on band and ensemble literature as well as individual concentration on tone production, technique, musicianship, sight-reading, expanded repertoire, and listening skills. Students will be required to attend rehearsals and performances with the marching and concert bands outside of school hours. Students will have the opportunity to participate in sanctioned VBODA band activities (e.g. State Marching Band Assessment, All-District Band, District Concert Band Assessment, District Jazz Ensemble Assessment, Regional and State Auditions/Events). Students who use WJCC instruments are assessed a fee per semester.
Honors Band
9344
1 Credit • Prerequisites: Audition or consent of the Director

Honors Woodwind/Brass/Percussion is an advanced elective band class for experienced, dedicated and advanced students seeking a higher-level ensemble experience. In addition to participating in regularly scheduled band classes, additional individualized course work such as compositional projects and solo performances will provide students an opportunity to develop their musical skills beyond those attained during regular large ensemble classes. An individualized honors contract developed by the instructor and the student will set forth requirements for the course. Students will prepare solo and ensemble literature for recital, will audition for All-District events, and will complete theory and compositional assignments. Students will be required to attend rehearsals and performances with the marching and concert bands outside of school hours. Students will have the opportunity to participate in sanctioned VBODA band activities (e.g., State Marching Band Assessment, All-District Band, District Concert Band Assessment, District Jazz Ensemble Assessment, Regional and State Auditions/Events). Students who use WJCC instruments are assessed a fee per semester.

Jazz Ensemble
9250SB
1 Credit • Prerequisite: Audition

Instruction will emphasize the study of Jazz literature and improvisation. Participants must be enrolled in their regular band or string class in order to enroll. Students may not take Jazz Ensemble as a substitution for a regular band course. Students who use WJCC instruments are assessed a fee per semester.

Orchestra
9338
1 Credit • Prerequisite: Audition or consent of the Director

Consisting of violin, viola, cello, and bass, this string orchestra class will emphasize playing technique and hand position to develop a more professional and mature tone quality. Students will refine skills in using bow weight, speed, and placement to affect dynamic levels and tone. Instruction will include music aesthetics, theory, and history and will incorporate an interdisciplinary approach. Students are expected to attend additional rehearsals and performances outside of school hours. Students who use WJCC instruments are assessed a fee per semester.

Advanced Orchestra
9339
1 Credit • Prerequisite: Audition or consent of the Director

Consisting of violin, viola, cello, and bass, this class will emphasize detailed work on orchestral and ensemble literature as well as individual concentration on tone production, technique, musicianship, sight-reading, and expanded repertoire and listening skills. Students will be required to attend rehearsals and performances both during school hours and outside of school hours. Students will have the opportunity to participate in sanctioned VBODA orchestral activities (e.g., Senior Regional Orchestra, All-State Orchestra, and District VIII Assessment Performance.) Students who use WJCC instruments are assessed a fee per semester.

Honors Orchestra
9342
1 Credit • Prerequisites: Audition or consent of the Director

Honors Orchestra is an advanced elective orchestra class for experienced, dedicated, and advanced students seeking a higher-level ensemble experience. In addition to participating in regularly scheduled orchestra classes, additional individualized course work such as compositional projects and solo performances will provide students an opportunity to develop their musical skills beyond those attained during regular large ensemble classes. An individualized honors contract developed by the instructor and the student will set forth requirements for the course. Students will prepare solo and ensemble literature for recital, will audition for Regional events, and will complete theory and compositional assignments. Students will be required to attend rehearsals and performances with orchestra outside of school hours. Students will have the opportunity to participate in sanctioned VBODA orchestra activities (e.g., Regional Orchestra, District Concert Assessment, Regional and State Auditions/Events). Students who use WJCC instruments are assessed a fee per semester.
Beginning/Intermediate Choir
9385

1 Credit

Students will develop choral skills through singing, in unison and harmony, with an emphasis on vocal production and techniques. Students will study sight-reading and theory, through a broad range of repertoire and styles. Attendance at all scheduled rehearsals and performances is required; stage presence and expected etiquette is an essential part of the performance. Students who demonstrate advanced skills will have the opportunity to participate in sanctioned VMEA and/or ACDA choir activities (e.g., District VIII Chorus, All-State Chorus, All-VA Honor Choir, District Assessment, and Festival). There is a fee associated with this course.

Advanced Choir
9389

1 Credit • Prerequisite: Audition or consent of Director

This class is for the experienced and performance oriented musician. Techniques studied will be expanded upon to include more advanced vocal techniques, musicianship, sight-reading, and theory through a broad range of repertoire and styles. Students participate in performances throughout the year. Attendance at all scheduled rehearsals and performances outside of school hours is required. Students are highly encouraged to audition for extra-curricular ensembles. Students who demonstrate advanced skills will have the opportunity to participate in sanctioned VMEA and/or ACDA choir activities (e.g., District VIII Chorus, All-State Chorus, All-VA Honor Choir, District Assessment, and Festival). There is a fee associated with this course.

Honors Choir
9390

1 Credit • Prerequisite: Audition or consent of the Director

This class is for experienced, dedicated students seeking a higher-level performance ensemble experience. Individualized course work will provide students an opportunity to further develop their musical skills. The style of music and group composition will be at the teacher’s discretion based on enrollment. Techniques studied in previous choir courses will be expanded including vocal techniques, tone production, musicianship, sight-reading, and expanded repertoire. An honors syllabus/contract will be developed by the instructor and the student to set individualized expectations for the course. Students are expected to attend additional rehearsals and performances outside of school hours as well as district choir auditions. Attendance at all scheduled rehearsals and performances outside of school hours is required. Students who demonstrate more advanced skills will have the opportunity to participate in sanctioned VMEA and/or ACDA choir activities (e.g., District VIII Chorus, All-State Chorus, All-VA Honor Choir, District Assessment and Festival). There is a fee for this course.

Theatre

Theatre Foundations
1414SB

1 Credit

The purpose of this course is an overview of theatre as a form of art that involves participation as performers and audience members. Students will improve their communication skills, develop an appreciation for the actor’s craft, and gain the understanding that theatre is a reflection of life. As a prerequisite for future courses, Theatre Foundations encompasses pantomimes, improvisations, scene development, monologues, critiques, play reviews, and short one-acts. Practical experience will be gained in theater as students participate in the creative process through performance and production.

Musical Theatre
1415SB

1 Credit • Prerequisite: Theatre Foundations

The Musical Theater program is designed to train actors in a wide range of skills, techniques, and experiences that provide a broad overview of the American musical theater performance, practice, history, and literature. A grade of “C” or higher in Theatre Foundations is recommended.
Acting and Directing
1416SB
1 Credit • Prerequisite: Theatre Foundations

Course continues to build upon skills introduced in Theater Foundation, including developing concentration and focus, characterizations, physical agility, and creativity through the use of a wide range of acting techniques. Directing will provide students with basic directing techniques, explore composition, terminology, and ethics of good stage directing. Students will recognize different styles and their influences on directing choices. Students will direct fellow classmates in performances to gain practical experience. A grade of “C” or higher in Theatre Foundations is recommended.

Stage Movement
1417SB
1 Credit • Prerequisite: Theatre Foundations

This course will allow students to exercise physical skills, coordination, and collaboration through the practice of dance methodologies. Students will explore the physical aspect of creating a role and preparing for a performance using physical and historical techniques. A grade of “C” or higher in Theatre Foundations is recommended.

Technical Theatre
1436SB
1 Credit • Prerequisite: Theatre Foundations

Technical Theater focuses on the application of stage and performance principles and how they relate to the design, construction, and implementation of scenery, sound, lighting, make-up, costume, props, and stage management. These skills are influenced through reading and analyzing plays. This course also provides basic information and hands-on experience needed by technicians to function responsibly and efficiently as part of a theatrical team. A grade of “C” or higher in Theatre Foundations is recommended.

Advanced Theatre Studio
1418SB
1 Credit • Prerequisite: Theatre Foundation and two additional Theatre courses

The major emphasis of this course is to provide for the continued growth and development of a student’s acting and technical skills through the studying and production of public performances. This course allows students to work in all areas of theatre practicum through a guided production process. Advanced Theatre at this level places a greater emphasis on execution of skills, ensemble work, and collaboration with other student technicians. This course is expected to assimilate the acquired skills technical theatre, stage movements, musical theatre, and/or acting and directing. A grade of “C” or higher in Theatre Foundation and two intermediate theatre courses are required.

HEALTH & PHYSICAL EDUCATION

Adapted Physical Education: Students will be scheduled into adapted physical education with a doctor’s recommendation and approval of the child study committee.

Health and Physical Education I
7300SB
1 Credit

Health I topics include wellness and fitness, nutrition, infectious diseases, AIDS, STDs, and family life and sex education. Physical Education I focuses on lifetime activities including: disc games, biking, speedminton, orienteering, geocaching, rhythms and dance, and cooperative activities. A major emphasis is placed on fitness activities including: yoga, Pilates, stability ball and strength training. “Completion of this course meets the “Training for Emergency First Aid, CPR & Use of an AED” graduation requirement beginning with the freshman class of 2017-2018 and beyond.
Health and Physical Education II
7400SB
1 Credit

Health II topics include emotional health, non-infectious diseases, family life and sex education, fitness planning, and substance abuse prevention.

Physical Education II focuses on individual activities including: tennis, golf, weight training, badminton, archery, and dance. A major emphasis is placed on fitness activities including weight room activities and a performance portfolio.

The following courses are electives and do not satisfy diploma requirements in the area of Health & Physical Education.

Advanced First Aid and CPR
7635SB
1 Credit

This Health/Physical Education elective will give students a complete study of advanced first aid and CPR for the professional rescuer. It will expose students to agencies in the community involved in first aid and rescue. Students will have an opportunity to receive Emergency Care and Safety Institute certifications in first aid and CPR providing qualifications are met. The certification test is a course requirement & there is a fee required for this course.

Advanced Physical Conditioning *Industry Credential may be available at participating schools
7655SB
1 Credit • Prerequisites: Teacher recommendation required

This course offers students the opportunity to develop an optimal level of conditioning through a variety of advanced training techniques. Through the study of biomechanics of movement, students will learn to identify correct technique in performance. Students interested in personal fitness training and sports medicine may benefit from this intensified study of personal conditioning.

Lifetime Fitness and Conditioning *Industry Credential may be available at participating schools
7650SB
1 Credit • Prerequisites: Physical Education I and II and teacher recommendation

This course will focus on the study of the science of anatomy, physiology, kinesiology and biomechanics and their relationship to the performance of the human body. There will be approximately 40% classroom time and 60% lab time. Laboratory activities will focus on total body conditioning.

Driver Education – Grades 10-12
7015SB
1 Credit • Prerequisite: Must possess a valid Virginia Instruction Permit to begin Behind the Wheel

Classroom: Course emphasizes traffic knowledge, Virginia law, and a proper attitude toward the use of motor vehicles. Students will also learn basic automobile maintenance.

Behind the Wheel: Course emphasizes driving skills and road experience, offered before school, after school and Saturdays. There is a fee for behind the wheel. Please check the fee list on the website.

CAREER & TECHNICAL EDUCATION (CTE)

Business & Information Technology

Principles of Business and Marketing – Grades 9-10 *Industry Credential Available
6116SB
1 Credit

Students discover the roles of business and marketing in the free enterprise system and the global economy. Basic financial concepts of banking, insurance, credit, inheritance, taxation, and investments are investigated to provide a strong background as students prepare to make sound decisions as consumers, wage earners, and citizens. The real-world impact
of technology, effective communication, and interpersonal skills is evident throughout the course. This course also supports career development skills and explores career options. There is a fee associated with this course.

**Business Law – Grades 11-12  *Industry Credential Available***

**6132SB**

1 Credit

Optional: 1 Credit for completing Cooperative Education work-based learning method of instruction (when available)

Students examine the foundations of the American legal system and learn the rights and responsibilities of citizens. Students gain practical knowledge and life skills by exploring economic and social concepts related to laws governing business and individuals. Focus areas include contracts, consumer protection, criminal law, tort law, international law, family/domestic law, employment law, cyber law, and careers in the legal profession. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. There is a fee associated with this course.

**Business Management – Grades 11-12  *Industry Credential Available***

**6135SB**

1 Credit

Optional: 1 Credit for completing Cooperative Education work-based learning method of instruction (when available)

Students study basic management concepts and leadership styles as they explore business ownership, planning, operations, marketing, finance, economics, communications, the global marketplace, and human relations. Quality concepts, project management, problem solving, and ethical decision-making are an integral part of the course. Student leadership skills may be enhanced by participation in school-based or virtual enterprises, job shadowing, internships, cooperative education, and/or the Future Business Leaders of America (FBLA).

**Information Technology (IT) Fundamentals – Grades 9-10  *Industry Credential Available***

**6670SB**

1 Credit

Students investigate career opportunities and technologies in four major IT areas: Information Services and Support, Network Systems, Programming and Software Development, and Interactive Media. Students will evaluate the impact of IT on other career clusters. The focus of the IT Fundamentals course is the introduction of skills related to information technology basics, Internet fundamentals, network systems, computer maintenance/upgrading/troubleshooting, computer applications, programming, graphics, Web page design, and interactive media. Students explore ethical issues related to computers and Internet technology and develop teamwork and communication skills that will enhance their employability. There is a fee associated with this course.

**Computer Information Systems (CIS) – Grades 10-12  *Industry Credential Available***

**6614SB**

1 Credit

Optional: 1 Credit for completing Cooperative Education work-based learning method of instruction (when available)

Prerequisite: Keyboarding skills

Students apply problem-solving skills to real-life situations through word processing, spreadsheets, databases, multimedia presentations, and integrated software activities. Students work individually and in groups to explore computer concepts, operating systems, networks, telecommunications, and emerging technologies. There is a fee associated with this course.
Commonwealth Innovation (CI) - Art Foundations, Biology*, and Computer Information Systems (CIS)
986CI
1 Credit Fine Arts (Art Foundations)
1 Credit Science (Biology) *Honors Biology extension available
1 Credit CTE (Computer Information Systems)

This yearlong, interdisciplinary, team-taught course is designed to engage students using project-based learning. Students research and create group projects using interrelationships of the fine arts, science, technology, and entrepreneurship. Emphasis is on creative thinking, critical thinking, communication, and collaboration. Reflection, feedback, and revision are essential parts of this course. Students in this course will prepare to take the Biology SOL assessment at the end of the course. Students may also have an opportunity to pursue an Industry Credential by taking the Workplace Readiness Skills assessment at the conclusion of this course.

Advanced Computer Information Systems – Grades 11-12 *Industry Credential Available
6615SB
1 Credit
Optional: 1 Credit for completing Cooperative Education work-based learning method of instruction (when available)

Prerequisite: Computer Information Systems (CIS) or Information Technology (IT) Fundamentals

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

Design, Multimedia, and Web Technologies – Grades 10-12 *Industry Credential Available
6632SB
1 Credit
Optional: 1 Credit for completing Cooperative Education work-based learning method of instruction (when available)

Prerequisite: Information Technology (IT) Fundamentals, Keyboarding skills.

Students develop proficiency in designing and creating desktop-published projects, multimedia presentations/projects, and websites, using industry-standard application software. Students apply principles of layout and design in completing projects. Students create portfolios that include a résumé and a variety of desktop-published, multimedia, and website projects produced in the course. There is a fee associated with this course.

Advanced Design, Multimedia, and Web Technologies – Grades 11-12 *Industry Credential Available
6633SB
1 Credit
Optional: 1 Credit for completing Cooperative Education work-based learning method of instruction (when available)

Prerequisite: Design, Multimedia, and Web Technologies

Students develop advanced skills for creating desktop-published, interactive multimedia, and website projects. Students work with sophisticated hardware and software, applying skills to real-world projects. There is a fee associated with this course.

Economics and Personal Finance – Grades 11-12 *Industry Credential Available
6120-3SB
1 Credit
Optional: 1 Credit for completing Cooperative Education work-based learning method of instruction (when available)

*This course does satisfy the diploma requirement for successful completion of a Virtual Course
*This course does not satisfy the diploma requirement for a Career and Technical Education Course

Students learn how to navigate the financial decisions they must face and how to make informed decisions related to career exploration, budgeting, banking, credit, insurance, spending, taxes, saving, investing, buying/leasing a vehicle, living independently, and inheritance. Development of financial literacy skills and an understanding of economic principles will provide the basis for responsible citizenship and career success. In addition to developing personal finance skills, students
in this course will also study basic occupational skills and concepts in preparation for entry-level employment in the field of finance.

All WJCC students will take this course online through our eLearning portal to meet VDOE graduation requirements. The online blended learning course option is offered either during the school day directed either by a teacher or asynchronously. Students will be given deadlines to turn in submitted assignments during the semester according to a pacing guide set by the instructor and will be required to take the WISE Financial Literacy Test or the Workplace Readiness Skills for the Commonwealth Examination. There is a fee associated with this course.

**Career Connections**

**Introduction to Virginia Teachers for Tomorrow – Grades 9-10 *Industry Credential Available**
9060SB

1 Credit

Optional: 1 Credit for completing Cooperative Education work-based learning method of instruction (when available)

This exploratory course fosters student interest, understanding, and appreciation of the teaching profession and allows students an introduction to careers in education. Students are taught to develop self-awareness, collaborate and communicate with peers, build positive learning environments, and discover learning differences of others. The curriculum is designed to help students set attainable goals in the Education and Training Career Cluster. This course introduces students to the high school Virginia Teachers for Tomorrow (VTfT) program.

**Virginia Teachers for Tomorrow I – Grades 10-12 *Industry Credential Available**
9062SB

1 Credit

This course fosters student interest, understanding, and appreciation of the teaching profession and allows secondary students to explore careers in education. Students build a foundation for teaching; learn the history, structure and governance of teaching; apply professional teaching techniques in the VTfT classroom and field experience; and reflect on their teaching experiences.

**Virginia Teachers for Tomorrow II – Grades 11-12 *Industry Credential Available**
9072SB

1 Credit • Prerequisite: Virginia Teachers for Tomorrow I

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

**Family & Consumer Sciences**

**Nutrition and Wellness – Grades 10-12 *Industry Credential Available**
8228SB

1 Credit

Optional: 1 Credit for completing Cooperative Education work-based learning method of instruction (when available)

Students enrolled in Nutrition and Wellness focus on understanding wellness, investigating principles of nutrition, using science and technology in food management, ensuring food safety, planning menus and preparing food, and exploring careers in the field of nutrition and wellness. Critical thinking and practical problem solving are emphasized. There is a fee associated with this course.
Child Development and Parenting – Grades 10-12  *Industry Credential Available
8231SB
1 Credit
Optional: 1 Credit for completing Cooperative Education work-based learning method of instruction (when available)

Students enrolled in Child Development and Parenting focus on balancing work and family; analyzing parenting roles and responsibilities; ensuring a healthy start for mother and child; evaluating support systems that provide services for parents; and evaluating parenting practices that maximize human growth and development. There is a fee associated with this course.

Independent Living – Grades 9-12  *Industry Credential Available
8214SB
1 Credit
Optional: 1 Credit for completing Cooperative Education work-based learning method of instruction (when available)

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

Health & Medical Science

Introduction to Health Occupations – Grade 12
8302TN
1 Credit

This course is offered in partnership with Thomas Nelson Community College. Please see your school counselor for enrollment information.

This course explores many of the occupations that exist within the health and medical science area. This exploration includes job descriptions; education; personal qualifications; licensing requirements; specialties within careers, wages and earning potential; work environment; career ladder; and advantages/disadvantages. Basic medical vocabulary, infection control protocols, legal, and ethical practices are also addressed.

Emergency Medical Technician (EMT) I and II – Grade 12  *Industry Credential Available
8333TN
1 Credit per course • Prerequisite: Introduction to Health Occupations

This course is offered in partnership with Thomas Nelson Community College. Please see your school counselor for enrollment information.

EMT Basic is a state certification that enables the holder to be a first-responder to medical emergencies. Students enrolled in this course will learn to assess the scene, take safety precautions in the absence of public safety personnel to protect the injured, use body substance isolation techniques, determine nature and extent of illness or injury perform triage, and render emergency care. Skills performed include, but are not limited to, establishing and maintaining an airway, ventilating patients, cardiopulmonary resuscitation, and use of automated external defibrillators. The student will learn to provide pre-hospital emergency care of single-and multiple-system traumas such as controlling hemorrhaging; bandaging wounds; treatment of shock; immobilization; and splinting of painful, swollen, or deformed extremities.

Principles of Biomedical Science (PLTW) – Grades 9-10  *Industry Credential Available
8379SB
1 Credit

In this specialized course for PLTW, students are taught concepts of forensic inquiry; DNA and inheritance; function of human body systems, and exploring the body through diseases such as those leading to diabetes, heart disease, sickle cell, and infectious diseases. Students also explore medical interventions, postmortem examination, bioprocessing, bioinformatics, and concepts of microbiology and genetic engineering. There is a fee associated with this course.
Human Body Systems (PLTW) – Grades 10-12 *Industry Credential Available
8380SB
1 Credit • Prerequisite: Principles of Biomedical Science (PLTW)
In this specialized course for PLTW, students explore the human body systems of communication, power, and movement. To do this, students are taught the body’s components, tissues, molecules and cells, as well as concepts of homeostasis and body system defenses. There is a fee associated with this course.

Marketing Education

Principles of Business and Marketing – Grades 9-12 *Industry Credential Available
6116SB
1 Credit
Optional: 1 Credit for completing Cooperative Education work-based learning method of instruction (when available)
Students discover the roles of business and marketing in the free enterprise system and the global economy. Basic financial concepts of banking, insurance, credit, inheritance, taxation, and investments are investigated to provide a strong background as students prepare to make sound decisions as consumers, wage earners, and citizens. The real-world impact of technology, effective communication, and interpersonal skills is evident throughout the course. This course also supports career development skills and explores career options. There is a fee associated with this course.

Commonwealth Innovation (CI) – English 10* and Principles of Business & Marketing
985CI
1 Credit English (English 10) *Honors English 10 extension available
1 Credit CTE (Principles of Business & Marketing)
Prerequisite: English 9
The real-world impact of technology, effective communication, and interpersonal skills is evident throughout this course. There is a sustained emphasis on reading comprehension by comparing fiction and nonfiction texts and students will analyze the cultural and social functions and universal themes of fictional texts from different cultures. Students will discover the roles of business and marketing in the free enterprise system and the global economy. Students will use multimodal tools to create presentations both independently and in small groups, and will continue to build research skills presenting information gathered from diverse sources, identifying misconceptions and possible bias while crediting MLA or APA style. Students in this course will prepare to take the Writing SOL assessment at the end of the course. Students may also earn an Industry Credential at the conclusion of this course by taking the Workplace Readiness Skills assessment.

Marketing – Grades 9-12 *Industry Credential Available
8120SB
1 Credit
Optional: 1 Credit for completing Cooperative Education work-based learning method of instruction (when available)
Students examine activities in marketing and business important for success in marketing employment and postsecondary education. Students will learn how products are developed, branded, and sold to businesses and consumers. Students will analyze industry trends and gain hands-on experience in the marketing of goods, services, and ideas. Topics will include professionalism in the workplace, product planning and positioning, promotion, pricing, selling, economic issues, and the impact of technology on the marketplace. Computer/technology applications and DECA activities enhance the course. DECA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events. There is a fee associated with this course.

Marketing Management – Grade 11-12 *Industry Credential Available
8130SB
1 Credit
Optional: 1 Credit for completing Cooperative Education work-based learning method of instruction (when available)
Prerequisite: Marketing
Students build on knowledge gained in a prior Marketing course. Students participate in supervisory and management
activities focusing on the marketing mix, purchasing, financing, human resources, global marketing, pricing, and emerging
technologies. Students will prepare for advancement in marketing careers and postsecondary education. Computer/
technology applications and DECA activities enhance the course. DECA, the co-curricular student organization, offers
opportunities in leadership, community, and competitive events. There is a fee associated with this course.

**Fashion Marketing – Grades 10-12** *Industry Credential Available*

8140SB

1 Credit

Optional: 1 Credit for completing Cooperative Education work-based learning method of instruction (when available)

In this specialized course, students gain basic knowledge of the apparel and accessories industry and skills necessary
for successful employment in apparel businesses. Students develop general marketing skills necessary for successful
employment in fashion marketing, general marketing skills applicable to the apparel and accessories industry, and specialized
skills unique to fashion marketing. Personal selling, sales promotion, purchasing, physical distribution, market planning, and
product/service technology as well as academic skills (mathematics, science, English, and history/social science) related
to the content are part of this course. Computer/technology applications supporting this course are studied. There is a fee
associated with this course.

**Advanced Fashion Marketing – Grades 11-12** *Industry Credential Available*

8145SB

1 Credit

Optional: 1 Credit for completing Cooperative Education work-based learning method of instruction (when available)

Prerequisite: Fashion Marketing

Students with an interest in apparel and accessories marketing gain in-depth knowledge of the apparel and accessories
industry and skills utilized in various apparel businesses. They develop advanced skills unique to fashion marketing and
advanced general marketing skills applied to the apparel and accessories industry. Professional selling, sales promotion,
buying, merchandising, marketing research, economics, hiring and retaining employees, product/service technology, and
supervision as well as academic skills (mathematics, science, English, and history/social science) related to the content are
part of this course. Computer/technology applications supporting this course are studied. There is a fee associated with this
course.

**Opportunities in Hospitality and Tourism – Grades 10-12** *Industry Credential Available*

8139SB

1 Credit

Optional: 1 Credit for completing Cooperative Education work-based learning method of instruction (when available)

This course examines the components of the hospitality and tourism industry, including attractions, lodging, transportation,
and food and beverage. Other topics include the history, political, social, and cultural impacts hospitality and tourism have
had on local, state, and global environments. Students will develop competencies in the areas of communication, customer
service, marketing, industry technology, economics, and management functions, and will be provided with opportunities for
hands-on, real-world applications. Applying academic skills from other disciplines (e.g., mathematics, science, English, history/
social science) is also a part of this course. There is a fee associated with this course.

**Sports and Entertainment Marketing – Grades 10-12** *Industry Credential Available*

8175SB

1 Credit

Optional: 1 Credit for completing Cooperative Education work-based learning method of instruction (when available)

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 skills, branding,
product development, pricing and distribution strategies, business structures, sales processes, social media, sponsorships
and endorsements, as well as promotion plans needed for sports and entertainment events. The course also supports career
development skills and explores career options. Academic skills (mathematics, science, English, and history/social science)
related to the content are a part of this course. There is a fee associated with this course.
Sports and Entertainment Management – Grades 11-12 *Industry Credential Available
8177SB

1 Credit
Optional: 1 Credit for completing Cooperative Education work-based learning method of instruction (when available)

Prerequisite: Sports and Entertainment Marketing

Students will build on prior knowledge of sports, entertainment, and recreation marketing. This course focuses on the principles of management and planning supported by research, 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. Academic skills (mathematics, science, English, and history/social science) related to the content are a part of this course. Computer/technology applications supporting the course are studied. There is a fee associated with this course.

Technology Education

Advanced Drawing and Design – Grades 9-12 *Industry Credential Available
8438SB

1 Credit

This course offers experience in 2D and 3D modeling techniques used in careers such as engineering, architecture, interior designing, graphic arts, and game design. AutoCAD professional software is used to enhance the curriculum and develop skills in computer-aided design systems. There is a fee associated with this course.

Architectural Drawing/Design – Grades 10-12 *Industry Credential Available
8437SB

1 Credit

This course is for students that may be interested in becoming an architect, interior designer or general contractor. Students learn how to use designing tools such as T-squares, REVIT software, design structures, and models. Careers that support architecture are explored such as carpentry, electrical, and plumbing. There is a fee associated with this course.

Engineering Studies – Grades 11-12 *Industry Credential Available
8491SB

1 Credit

To learn the applications and design process of engineering, students form engineering teams and select a group design problem. Each team uses communications, graphics, mathematics, and community resources to solve problems. Each team learns appropriate information in order to complete a project. Projects may be models, systems, or products that creatively solve an engineering problem. There is a fee associated with this course.

Digital Visualization – Grades 9-12 *Industry Credential Available
8459SB

1 Credit

Digital Visualization provides experiences related to computer animation by using graphics and design concepts. Students solve problems involving 3D object manipulation, storyboarding, texturing/mapping, lighting concepts, and environmental geometry. Students create a variety of animations that reflect real-world applications and are introduced to interactive and 3D animation software. There is a fee associated with this course.

Graphic Communications Systems – Grades 10-12 *Industry Credential Available
8494SB

1 Credit

Graphic Communications Systems provide experiences in the fields of imaging technology, graphic productions, mixed media, technical design, and various modes of communicating information through the use of visual data. Students develop critical-thinking and problem-solving skills using the universal systems model. Students also learn about the impact of communication on society and potential career fields relating to communications. There is a fee associated with this course.
Geospatial Technology I – Grades 10-12  *Industry Credential Available*
8424SB

1 Credit

Geospatial Technology I provides experiences in the study and use of geographic information systems (GIS), global positioning systems (GPS), remote sensing (RS), and mobile technologies. Students will use various tools, processes, and techniques to create, store, access, manipulate, and revise data to solve human challenges. Students will interface to network-based data management systems and employ real-world spatial analysis models and guidelines for integrating, interpreting, analyzing, and synthesizing data, with a focus on both the implications and the limitations of such technologies.

Introduction to Engineering Design (PLTW) – Grades 9-10  *Industry Credential Available*
8439SB

1 Credit • Prerequisite: Currently enrolled in Algebra I Sequence II or Algebra I

Introduction to Engineering Design teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed, and communicated using solid modeling computer design computer software. The program also emphasizes team development and team problem solving. There is a fee associated with this course.

Principles of Engineering (PLTW) – Grades 10-11  *Industry Credential Available*
8441SB

1 Credit • Prerequisite: Introduction to Engineering Design

Principles of Engineering introduces the career field in terms of the kinds of problems it solves. Students are presented with problems in design of products. They learn modeling, testing and evaluation, and presentation skills. Topics include engineering systems, thermodynamics, fluid systems, electrical systems, and control systems. In statics and material strength, they learn about forces, static equilibrium, vectors, moments, and reaction forces. Statistical process control and non-destructive and destructive testing are employed. It is strongly recommended that students shall have successfully completed Algebra I prior to enrollment. There is a fee associated with this course.

Computer Integrated Manufacturing (PLTW) – Grades 10-12  *Industry Credential Available*
8442SB

1 Credit • Prerequisite: Introduction to Engineering Design

The objective of the Computer Integrated Manufacturing course is to expose students to the fundamentals of computerized manufacturing technology. The course is built around several key concepts:

- Computer modeling – Utilize 3D solid modeling software package (Inventor) with mass property analysis
- CNC equipment – understanding the machine tools and its operating and programming aspects
- CAM software – converting computer-generated geometry into a program to drive CNC machine tools
- Robotics – using a robot for materials handling and assembly operations
- Flexible manufacturing systems – students working in teams to design manufacturing work cells and tabletop factory simulations.

There is a fee associated with this course.

Digital Electronics (PLTW) – Grades 10-12  *Industry Credential Available*
8440SB

1 Credit • Prerequisite: Algebra I and Introduction to Engineering Design

Students use computer simulations to learn about the logic of electronics as they design, test, and actually construct circuits and devices. They apply control system programming and explore sequential logic and digital circuitry fundamentals. Topics in computer circuitry are also presented. There is a fee associated with this course.

Engineering Design And Development (PLTW) – Grade 11-12  *Industry Credential Available*
8443SB

1 Credit • Prerequisite: Algebra II and Introduction to Engineering Design

Students work in teams to research, design, and construct a solution to an open-ended engineering problem. Students apply principles developed in the four preceding courses. They must present progress reports, submit a final written report, and
defend their solutions to a panel of outside reviewers at the end of the school year. There is a fee associated with this course.

**Computer & Information Science**

**Computer Science Essentials (PLTW) *Industry Credential Available***  
8472SB  
1 Credit

Students will use visual, block-based programming and seamlessly transition to text-based programming with language such as Python® to create apps and develop websites, and learn how to make computers work together to put their design into practice. Students will apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them. This course helps students create a strong foundation to advance to Computer Science Principles and Computer Science A.

**Computer Science Principles (PLTW) *Industry Credential Available***  
8473SB  
1 Credit

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course will develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Students will continue developing programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. This course aligns to AP Computer Science Principles curriculum framework standards and the AP Computer Science Principles exam.

**Advanced Placement Computer Science A (PLTW) *Industry Credential Available***  
8474SB  
1 Credit • Prerequisite: Computer Science Principles (PLTW)

Students will further develop computational-thinking skills through the medium of Android™ App development for mobile platforms. The course utilizes industry-standard tools such as Android Studio, Java™ programming language, XML, and device emulators. Students collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and web-based databases.

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**NEW HORIZON’S CAREER & TECHNICAL EDUCATION CENTER (CTEC)**

*Once a student has been admitted to the Career & Technical Education Center, he/she will work with his/her school counselor to review course descriptions for the upcoming academic year and make appropriate course selections.*

Courses at the New Horizons Regional Education Center qualify students for post-secondary education and/or skilled employment after graduation. The courses are open to all rising eleventh and twelfth graders. Students attend a half-day (two blocks) at their home high school and a half-day (two blocks) at New Horizons, either at the Woodside Lane campus in Newport News or the Butler Farm campus in Hampton, getting hands-on experience in the career cluster of their choice.

Most courses carry three credits per year for each of the one or two years of study. Transportation will be provided and participating students must be full-time Jamestown, Lafayette, or Warhill High School students who are eligible to participate in activities, athletics, or clubs.

Note: All course offerings listed on the following page are contingent upon the necessary number of students enrolling in them and approval of the 2019-2020 budget. If a class does not attain minimum requirements then it may be cancelled. As such, students are strongly encouraged to choose more than one course when completing an enrollment application. Dual enrollment credits are contingent upon employment of a qualified instructor and students pass the TNCC college placement test. Selected students may be invited to return for a second year program. A very limited number of positions are available.

**Admission Procedures:** To submit your application for CTEC by the current deadline or to find out more information about CTEC, visit your school counselor or go online to [www.nhrec.org](http://www.nhrec.org)
<table>
<thead>
<tr>
<th>Career Clusters</th>
<th>Courses</th>
<th>Campus*</th>
<th>AM/PM Session</th>
<th>College Credits</th>
<th>Industry Credential(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Automotive Technology</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1 yr program)</td>
<td>Auto Collision and Refinishing I, II</td>
<td>Butler Farm</td>
<td>Both</td>
<td></td>
<td>NOCTI, ASE</td>
</tr>
<tr>
<td>(2nd yr optional)</td>
<td>Auto Collision and Refinishing III</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2 yr program)</td>
<td>Automotive Technology I, II</td>
<td>Butler Farm</td>
<td>Both</td>
<td>17 TNCC</td>
<td>ASE/AYES</td>
</tr>
<tr>
<td><strong>Construction Technology</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1 yr program)</td>
<td>Building Construction I, II</td>
<td>Woodside Lane</td>
<td>Both</td>
<td></td>
<td>NOCTI</td>
</tr>
<tr>
<td>(2nd yr optional)</td>
<td>Building Construction III</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1 yr program)</td>
<td>Electricity and Renewable Energy</td>
<td>Woodside Lane</td>
<td>Both</td>
<td></td>
<td>NOCTI</td>
</tr>
<tr>
<td>(1 yr program)</td>
<td>HVAC I, II</td>
<td>Woodside Lane</td>
<td>Both</td>
<td></td>
<td>EPA Technician</td>
</tr>
<tr>
<td>(1 yr program)</td>
<td>Plumbing and Pipefitting</td>
<td>Woodside Lane</td>
<td>Both</td>
<td></td>
<td>NOCTI</td>
</tr>
<tr>
<td><strong>Engineering/Manufacturing Technology</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1 yr program)</td>
<td>Precision Machining</td>
<td>Continental</td>
<td>AM</td>
<td>19 TNCC</td>
<td>NOCTI</td>
</tr>
<tr>
<td>(1 yr program)</td>
<td>Mechatronics</td>
<td>Butler Farm</td>
<td>Both</td>
<td>22 TNCC</td>
<td>Siemens Mechatronics Systems Certification</td>
</tr>
<tr>
<td>(2 yr program)</td>
<td>Welding I, II</td>
<td>Butler Farm (I &amp; II) Woodside Lane (II)</td>
<td>Both</td>
<td>18 TNCC</td>
<td>AWS SENSE/NOCTI</td>
</tr>
<tr>
<td><strong>Health Services</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>(2 yr program)</td>
<td>Dental Careers I, II</td>
<td>Butler Farm</td>
<td>I - AM; I &amp; II - PM</td>
<td></td>
<td>X-Ray Cert., NOCTI</td>
</tr>
<tr>
<td>(1 yr program)</td>
<td>Medical Assistant</td>
<td>Butler Farm</td>
<td>Both</td>
<td></td>
<td>NOCTI/NHA Certification</td>
</tr>
<tr>
<td>(1 yr program)</td>
<td>Nursing Aide</td>
<td>Butler Farm</td>
<td>Both</td>
<td></td>
<td>Cert. Nursing Assistant</td>
</tr>
<tr>
<td>(1 yr program)</td>
<td>Physical and Occupational Therapy I, II</td>
<td>Butler Farm</td>
<td>Both</td>
<td></td>
<td>Certified Physical Therapy Aide Exam</td>
</tr>
<tr>
<td>(1 yr program)</td>
<td>Pharmacy Technician</td>
<td>Woodside Lane</td>
<td>Both</td>
<td></td>
<td>ExCPT Examination</td>
</tr>
<tr>
<td>(1 yr program)</td>
<td>Veterinary Science</td>
<td>Woodside Lane</td>
<td>Both</td>
<td></td>
<td>NOCTI</td>
</tr>
<tr>
<td><strong>Human Services</strong></td>
<td></td>
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<td></td>
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<tr>
<td>(2 yr program)</td>
<td>Cosmetology I, II</td>
<td>Both</td>
<td>Both</td>
<td></td>
<td>State Licensure/NOCTI</td>
</tr>
<tr>
<td>(2 yr program)</td>
<td>Culinary Arts I &amp; II</td>
<td>Woodside Lane</td>
<td>Both</td>
<td></td>
<td>NOCTI</td>
</tr>
<tr>
<td>(1 yr program)</td>
<td>Early Childhood Education</td>
<td>Woodside Lane</td>
<td>Both</td>
<td>6 TNCC</td>
<td>NOCTI</td>
</tr>
<tr>
<td><strong>Information Technology</strong></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>(1 yr program)</td>
<td>Cybersecurity Systems Technology</td>
<td>Butler Farm</td>
<td>Both</td>
<td>6 TNCC</td>
<td>NOCTI</td>
</tr>
<tr>
<td></td>
<td>Advanced Cybersecurity Systems Technology</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>(2 yr program)</td>
<td>Cisco Networking/Cyber Security Academy</td>
<td>Woodside Lane</td>
<td>Both</td>
<td>14 TNCC</td>
<td>CISCO CCENT, CCNA</td>
</tr>
<tr>
<td>(1 yr program)</td>
<td>Computer Programming Applications and Gaming &amp; Advanced Programming</td>
<td>Woodside Lane</td>
<td>Both</td>
<td>18 TNCC</td>
<td>Java Fundamentals</td>
</tr>
<tr>
<td><strong>Public Service</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1 yr program)</td>
<td>Criminal Justice</td>
<td>Both</td>
<td>Both</td>
<td>6 TNCC</td>
<td>NOCTI</td>
</tr>
<tr>
<td>(1 yr program)</td>
<td>Emergency Medical Technician</td>
<td>Butler Farm</td>
<td>Both</td>
<td></td>
<td>EMT</td>
</tr>
<tr>
<td>(1 yr program)</td>
<td>Fire Fighter</td>
<td>Butler Farm</td>
<td>PM only</td>
<td></td>
<td>Fire Fighter I &amp; II</td>
</tr>
</tbody>
</table>
Once a rising eleventh grade student has been admitted to the Governor’s School for Science and Technology, he/she will work with his/her school counselor to review course descriptions for the upcoming academic year and make appropriate course selections.

The Governor’s School is a two-year, half-day program, for eleventh and twelfth graders. Students will select one of the following three strands as the focus for their Governor’s School experience: Engineering, Biological Sciences, or Computational Sciences & Engineering. Each strand provides a unique emphasis on both the science subject matter and associated career fields and each course offered has been specifically structured to incorporate best practices for gifted students. In total, students will spend approximately three hours at the Governor’s School, taking three courses each year, during the two-year program.

Note: All strands encompass a math course during both the junior and senior year and placement in the appropriate math course will be determined upon admission at the end of tenth grade. In addition, each strand will foster research through a Research Methods and Ethics course the junior year and an Honors Research and Mentorship placement the senior year.

Potential Course Offerings – Full course descriptions are available at https://nhrec.org/gsst/:
- Advanced Chemical Analysis
- Advanced Biological Analysis
- Calculus-based Engineering Physics I & II: Mechanics to Electromagnetism
- Computational Physics
- Engineering Design Innovation & Entrepreneurship
- College Modern Pre-Calculus
- College Calculus
- Statistical Research Methods
- Multivariable Calculus/Linear Algebra
- Differential Equations & Math Methods in Physics
- Research Methodology & Ethics
- Environmental Science: Research Applications/Mentorship

Admissions Procedures

Admission to the program is highly competitive. For specific admission and application information, please see your school counselor or visit https://nhrec.org/gsst/admissions/how-to-apply/

Pre-Admission Series:

A standardized test will be administered to a pool of eighth grade students who have been recommended for possible admission. Test scores, as well as teacher recommendations and course grades will be used to determine which students will be invited to participate in the Governor’s School Pre-Admissions Series offered in ninth and tenth grade. Identified students will take prerequisite courses offered in their high schools and will participate in a variety of specific activities offered at the school that will familiarize and prepare them for the two-year program. For more information, please visit https://nhrec.org/gsst/admissions/pre-admissions/.
<table>
<thead>
<tr>
<th>Engineering Strand (Prerequisites - 2 of the following sciences: Biology, Chemistry and/or Physics, with a math minimum of Pre-Calculus)</th>
<th>11th Grade</th>
<th>12th Grade</th>
<th>4HS/16 college credits</th>
<th>5 HS/15-18 college credits</th>
<th>Total: 9 HS/31-34 college credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>11th Grade</strong></td>
<td>Calculus-based Engineering Physics I &amp; II</td>
<td>Research Methodology &amp; Ethics</td>
<td>Calculus</td>
<td>2 HS/8 TNCC credits</td>
<td>1 HS</td>
</tr>
<tr>
<td><strong>12th Grade</strong></td>
<td>Calculus-based Engineering Physics III &amp; IV: Engineering Design</td>
<td>Env Sci/HR/M</td>
<td>Multivariable (MV) - Linear Algebra (LA)/Statistics</td>
<td>2 HS/8 TNCC credits</td>
<td>2 HS credits for Env Sci/HR/M 4 TNCC credits for Env Sci 2 TNCC credits for HR/M</td>
</tr>
</tbody>
</table>

**Biological Science Strand (Prerequisites - Biology and Chemistry, with math minimum of Algebra II/Trig)**

| 11th Grade | Advanced Chemical Analysis | Research Methodology & Ethics | Modern Pre-Calculus/Calculus | 2 HS/8 TNCC credits | 1 HS | 1 HS/6 TNCC credits for Pre-Calculus 1HS/8 TNCC credits for Calculus |
| 12th Grade | Advanced Biological Analysis | Envi Sci/HR/M | Calculus/MV-LA/Statistics | 2 HS/8 TNCC credits | 2 HS credits for Env Sci/HR/M 4 TNCC credits for Env Sci 2 TNCC credits for HR/M | 1HS/8 TNCC credits for Calculus 1HS/7 TNCC credits for MV-LA HS/3 TNCC credits for Statistics |

**Computational Science & Engineering (Prerequisites - 2 of the following sciences: Biology, Chemistry and/or Physics, with math minimum of Algebra II/Trig)**

| 11th Grade | Computational Physics | Research Methodology & Ethics | Modern Pre-Calculus/Calculus | 2 HS/8 TNCC credits | 1 HS | 1 HS/6 TNCC credits for Pre-Calculus 1HS/8 TNCC credits for Calculus |
| 12th Grade | Engineering Design Innovation & Entrepreneurialship | Envi Sci/HR/M | Calculus/MV-LA/Statistics | 2 HS/8 TNCC credits* pending approval | 2 HS credits for Env Sci/HR/M 4 TNCC credits for Env Sci 2 TNCC credits for HR/M | 1HS/8 TNCC credits for Calculus 1HS/7 TNCC credits for MV-LA HS/3 TNCC credits for Statistics |

9 HS/41-49 college credits

*Biological Science - It is recommended that students take high school Physics at their home school division.
**Williamsburg-James City County School Board**

Lisa L. Ownby, M.S.W., Chair ................................................................. Powhatan District

Julie Y. Hummel, M.Ed., Vice-Chair ....................................................... City of Williamsburg

Jim Kelly, PE, Parliamentarian ............................................................... Jamestown District

James W. Beers, Ph.D. ........................................................................... Roberts District

Kyra Cook .............................................................................................. City of Williamsburg

Holly A. Taylor, M.S.Ed. ........................................................................ Stonehouse District

Sandra S. Young, M.S.Ed. ....................................................................... Berkeley District

**Middle Schools (6–8)**

<table>
<thead>
<tr>
<th>School Name</th>
<th>Main Office</th>
<th>Address</th>
<th>City/County</th>
</tr>
</thead>
<tbody>
<tr>
<td>Berkeley</td>
<td>(757) 229-8051</td>
<td>1118 Ironbound Rd., Williamsburg, VA 23188</td>
<td>City of Williamsburg</td>
</tr>
<tr>
<td>James Blair</td>
<td>(757) 603-6565</td>
<td>101 Longhill Rd., Williamsburg, VA 23185</td>
<td>City of Williamsburg</td>
</tr>
<tr>
<td>Lois S. Hornsby</td>
<td>(757) 565-9400</td>
<td>850 Jolly Pond Rd., Williamsburg, VA 23188</td>
<td>James City County</td>
</tr>
<tr>
<td>Toano</td>
<td>(757) 566-4251</td>
<td>7817 Richmond Rd., Toano, VA 23168</td>
<td>James City County</td>
</tr>
</tbody>
</table>

**High Schools (9–12)**

<table>
<thead>
<tr>
<th>School Name</th>
<th>Main Office</th>
<th>Address</th>
<th>City/County</th>
<th>School Code</th>
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<tbody>
<tr>
<td>Jamestown</td>
<td>(757) 259-3600</td>
<td>3751 John Tyler Hwy., Williamsburg, VA 23185</td>
<td>James City County</td>
<td>472403</td>
</tr>
<tr>
<td>Lafayette</td>
<td>(757) 565-0373</td>
<td>4460 Longhill Rd., Williamsburg, VA 23188</td>
<td>James City County</td>
<td>472405</td>
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<tr>
<td>Warhill</td>
<td>(757) 565-4615</td>
<td>4615 Opportunity Way, Williamsburg, VA 23188</td>
<td>James City County</td>
<td>472417</td>
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The Williamsburg-James City County School Division is committed to a policy of non-discrimination based upon race, color, national origin, religion, sex, handicap, and age in the administration of its educational programs, activities, or with respect to employment. Inquiries should be directed to Stephanie Bourgeois, Title IX and Section 504 Compliance Officer, Student Services, Williamsburg-James City County Public Schools, 117 Ironbound Rd., Williamsburg, VA 23185 (Phone: 757-603-6533).