



Charles City Public Schools

Tradition • Technology • Excellence

SECONDARY PROGRAM OF STUDIES

A GUIDE FOR PARENTS AND STUDENTS

Educate

Engage

Empower

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THE MISSION OF CHARLES CITY PUBLIC SCHOOLS IS TO DEVELOP SELF-SUSTAINING,
RESPONSIBLE AND EDUCATED ADULTS WHO CAN CONTRIBUTE AND WORK TO IMPROVE
THEIR COMMUNITY AND THE WORLD.



Charles City Public Schools

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Dear Parents and Guardians,

This program of studies guide has been prepared to provide students and parents with an outline and explanation of what the instructional program may look like throughout their educational career in Charles City County. In addition, students can chart their career pathway via the academic and career plan.

Students along with their families are encouraged to familiarize themselves with this guide and to use it as a resource as they reflect their interests together with their educational and career goals. The guide provides pertinent information regarding promotions, grading, placements, assessments and course sequencing as well as further educational and career opportunities.

It is important that students consider the description of the courses along with the necessary prerequisites to determine if it suites their interests and abilities as well as their goals. School staff will work with parents and teachers to assist every student in choosing an appropriate program of study that provides intellectual challenges that also suits their needs and interests for their academic and career goals.

Sincerely,

David W. Gaston, Ed.D.

Superintendent

Mrs. Yanci Williams, Ed.S.

Charles City High School Counselor

How to Use the Program of Studies

- 1) Select a Career Cluster and Career Pathway
 - a. Choose a Career Cluster that closely relates to your skills, values, strengths, interests, etc.
 - b. Explore the occupations that are related to your Career Cluster.
 - c. Learn what skills, abilities and knowledge are required.
- 2) Become aware of the graduation requirements and decide which type of diploma you will pursue.
 - a. Advanced Studies
 - b. Standard
 - *Students seeking the Applied Studies Diploma will develop a plan in conjunction with the student's Individual Education Plan (IEP)
- 3) Decide on the courses that relate to your Career Cluster and diploma choice
 - a. Select your courses.
 - b. Counselors will assist students with updating their Academic and Career Plan based on educational and career goals.

Sample Charles City Public Schools Academic and Career Plan

Student Name:	Graduation Year:
Career Cluster/Pathway 1:	Career Cluster/Pathway 2:
Specific Career/Occupational Goals:	Diploma:
Educational Goal:	
Target Post-Secondary Schools or Training	
Extra-Curricular Interests/Community Engagement:	
Workplace Readiness Skills:	

High School Credits Taken in grades 7-8

Course	Year Taken	Final Grade	Omit/Retain	Comments

Students have until August 31 prior to their 9th grade year to purge credit courses taken in grades 7-8. See the School Counselor office to complete the necessary paperwork.

Course Planning Tool

Discipline Area	9 th Grade	10 th Grade	11 th Grade	12 th Grade	Required Credits	
					Advanced	Standard
English					4	4
Math					4	3
Science					4	3
Social Studies/History					4	3
Health & PE					2	2
Economics/Personal Finance					1	1
World Language					3	2
Fine Art					1	
Career & Tech					3	4
Electives						
Other Electives						
Total Credits					26	22

Verified Credits Required and/or Earned (SOL Tests Required and/or Passed)

Algebra I	10 th Grade Writing	Earth Science	World History
Geometry	11 th Grade Reading	Biology	World History II
Algebra II		Chemistry	U.S. & VA History

Student Signature: _____ Date: _____

Parent Signature: _____ Date: _____

More information regarding graduation requirements can be found at the Virginia Department of Education

<http://www.doe.virginia.gov/instruction/graduation/index.shtml>

GRADUATION INFORMATION

DIPLOMA TYPES AND SEALS

Special seals may be added to the diploma based on the following conditions:

GOVERNOR'S SEAL - Awarded to students who complete the requirements for an Advanced Studies Diploma with an average grade of "B" or better, and successfully complete college-level coursework that will earn the student at least nine transferable college credits in Advanced Placement (AP) or dual enrollment courses.

BOARD OF EDUCATION SEAL – For students who complete the requirements for a Standard Diploma or Advanced Studies Diploma with an average grade of "A" beginning with the ninth-grade class of 2006-2007 and beyond.

ADVANCED STUDIES DIPLOMA SEALS - Given to students who have completed the Advanced Studies Program requirements.

DIPLOMA TYPES	
<i>Standard Diploma (22 credits)</i>	To graduate with a Standard Diploma, a student must earn at least 22 standard units of credit by passing required courses and electives, and earn at least 6 verified credits by passing end-of-course SOL tests or other assessments approved by the Board of Education.
<i>Advanced Studies Diploma (26 credits)</i>	To graduate with an Advanced Studies Diploma, a student must earn at least 26 standard units of credit by passing required courses and electives, and earn at least 9 verified credits by passing end-of-course SOL tests or other assessments approved by the Board of Education.
<i>Applied Studies Diploma</i>	In accordance with the requirements of the Standards of Quality, a student with disabilities who completes the requirements of his or her IEP and does not meet the requirements for other diplomas shall be awarded an <i>Applied Studies Diploma</i> .

COURSE CREDITS

High school coursework are classified by credits which play a role in graduation requirements as well as the calculation of the grade point average on transcripts. Each credit earned has a value of one for a year-long course and a value of .5 for semester courses.

STANDARD CREDIT – is earned upon successful completion of the required instructional hours and objectives of the course.

VERIFIED CREDIT – is earned upon successful completion of the standard credit in conjunction with successfully passing the corresponding end-of-course SOL test or other state approved substitute assessment. (*See below for available SOL tests*)

WEIGHTED CREDIT – is additionally earned upon successful completion of certain coursework that is deemed as more rigorous such as honors, advanced placement or dual enrollment.

TRANSFER CREDIT – grades are accepted from other school divisions provided they are compatible with both local and state regulations; weighted credit will only be accepted for those courses that are also weighted in Charles City.

Available SOL Tests for Verified Credit

ENGLISH: Reading (11th), Writing (10th)

MATH: Algebra 1, Geometry, Algebra 2

SCIENCE: Earth Science, Biology, Chemistry

HISTORY: World History I (to 1500 A.D.), World History II (from 1500 A.D.), VA US History

GRADUATION REQUIREMENTS

Standard Diploma for Students Who Entered Ninth Grade for the First Time in 2011-2012 through 2017-2018 (22 Credits with 6 Verified Credits)

Courses	Standard Credits Required	Verified Credits Required	Things to keep in mind....
English	4	2	<i>Credits must include English 9, 10, 11, 12</i>
Mathematics	3	1	<i>Credits must include at least two (2) different course selections from Algebra I, Geometry, AFDA (Algebra, Functions, and Data Analysis), Algebra II, or other mathematics courses above the level of Algebra II</i>
Science (Laboratory)	3	1	<i>Credits must be from at least two (2) different science disciplines: Earth Science, Biology, Chemistry or Physics</i>
History & Social Science	4	1	<i>Credits must be from either World History or Geography and include both Va./U.S. History, and Va./U.S. Government</i>
Health and Physical Education	2		<i>Credits are earned in HPE 1 in 9th grade and HPE 2 in 10th grade</i>
Economic and Personal Finance	1		<i>A credit earned in this course is required for graduation (beginning with students who enter the ninth-grade class of 2011-2012 going forward)</i>
World Languages, Fine Arts, or Career and Technical Education	2		<i>For students entering the ninth grade for the first time in 2011- 2012 and beyond credits earned for this requirement shall include one credit in fine or career and technical education.</i>
Electives	4		<i>Courses to satisfy this requirement shall include at least two sequential electives</i>
Virtual Online Course	1		<i>Credit must be earned by completing one online course (beginning with students entering 9th graders in 2013-2014)</i>
CTE Certification			<i>Students must also earn a board-approved career and technical education credential beginning with students entering ninth grade for the first time in 2013-2014</i>
Other requirements		1	<i>Student choice verified credit required (SOL or approved industry certification)</i>

Note: Students who complete a career and technical educational program sequence and pass an examination or occupational competency assessment in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, or trade or professional association or acquires a professional license in a career and technical education field from the Commonwealth of Virginia may substitute the certification, competency credential, or license, for (i) the student selected verified credit and (ii) either a science or history and social science verified credit when the certification, license, or credential confers more than one verified credit. The examination or occupational competency assessment must be approved by the Virginia Board of Education as an additional test to verify student achievement.

**Advanced Studies Diploma for Students Who Entered Ninth Grade for the First Time in 2011-2012 through 2017-2018
(26 Credits with 9 Verified Credits)**

	Standard Credits Required	Verified Credits Required	Things to keep in mind....
English	4	2	<i>Credits must include English 9, 10, 11, 12</i>
Mathematics	4	2	<i>Credits must include at least two (2) different course selections from Algebra I, Geometry, AFDA (Algebra, Functions, and Data Analysis), Algebra II, or other mathematics courses above the level of Algebra II</i>
Science (Laboratory)	4	2	<i>Credits must be from at least two (2) different science disciplines: Earth Science, Biology, Chemistry or Physics</i>
History & Social Science	4	2	<i>Credits must be from either World History or Geography and include both Va./U.S. History, and Va./U.S. Government</i>
Health and Physical Education	2		<i>Credits are earned in HPE 1 in 9th grade and HPE 2 in 10th grade</i>
Economic and Personal Finance	1		<i>A credit earned in this course is required for graduation (beginning with students who enter the ninth-grade class of 2011-2012 going forward)</i>
World Languages	3 or 4		<i>Courses completed to satisfy this requirement shall include three years of one language or two years of two languages</i>
Fine Arts, or Career and Technical Education	2		<i>For students entering the ninth grade for the first time in 2011- 2012 and beyond credits earned for this requirement shall include one credit in fine or career and technical education</i>
Electives	4		<i>Courses to satisfy this requirement shall include at least two sequential electives</i>
Virtual Online Course	1		<i>Credit must be earned by completing one online course (beginning with students entering 9th graders in 2013-2014)</i>
CTE Certification			<i>Students must also earn a board-approved career and technical education credential beginning with students entering ninth grade for the first time in 2013-2014</i>
Another Verified Credit		1	<i>Student choice verified credit required (SOL or approved industry certification) (see note below)</i>
	26	9	

Note: Students who complete a career and technical educational program sequence and pass an examination or occupational competency assessment in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, or trade or professional association or acquires a professional license in a career and technical education field from the Commonwealth of Virginia may substitute the certification, competency credential, or license, for (i) the student selected verified credit and (ii) either a science or history and social science verified credit when the certification, license, or credential confers more than one verified credit. The examination or occupational competency assessment must be approved by the Virginia Board of Education as an additional test to verify student achievement.

Standard Diploma and Advanced Studies Diploma for Students Entering Ninth Grade for the First Time in 2018-2019 and Beyond

Standard Diploma			Advance Studies Diploma		
	Standard Credits Required	Verified Credits Required		Standard Credits Required	Verified Credits Required
English	4	2	English	4	2
Mathematics	3	1	Mathematics	4	1
Laboratory Science	3	1	Laboratory Science	4	1
History & Social Science	3	1	History & Social Sciences	4	1
Health and Physical Education	2	0	World Language	3	0
Economic and Personal Finance	1	0	Health and Physical Education	2	0
World Language, Fine Arts or CTE	2	0	Economic and Personal Finance	1	0
			Fine Arts or CTE	1	0
Electives	4	0	Electives	3	0
	22	5		26	5

The Charles City Public Schools School Board requires each student to complete a certain number of community service hours, beginning with students in the Class of 2022, as a condition for their receipt of a Charles City County Public Schools Diploma.

To recognize students for their commitment in service to others, the Charles City School Board will bestow the *Charles City High School Citizenship to the Community Diploma Seal* to those students who have successfully completed one of the following requirements:

- 1) 25 hours of volunteer hours – Bronze Charles City High School Citizenship to the Community Diploma Seal
- 2) 35 hours of volunteer hours - Silver Charles City High School Citizenship to the Community Diploma Seal
- 3) 50 or more hours of volunteer hours -Gold Charles City High School Citizenship to the Community Diploma Seal

VIRGINIA’S 16 CAREER CLUSTERS

Career Clusters provide students with a broad groupings of career fields. Each cluster is divided into multiple career pathways. Pathways are sub-groupings of occupations based on a set of common skills and knowledge needed for career success.

The Virginia Department of Education provides multiple resources, examples, employment projections, and more via http://www.doe.virginia.gov/instruction/career_technical/career_clusters/index.shtml

There are many exciting and diverse careers open to qualified applicants. The possibilities are limitless. Students should choose a pathway that combines their interests and abilities with their personal, educational and career goals. Students are not locked into a path or program of study but are encouraged to explore all available opportunities and possibilities. Choosing a pathway is a collaborative process involving the student, parents, teachers and the school counselor. For more information about career planning and opportunities as well as discovering your own interests using career inventories and computerized programs, please refer to the following resources:

CTE Resources at http://www.doe.virginia.gov/instruction/career_technical/career_clusters/

Virginia Wizard at www.vawizard.org

Virginia Career View and the Kuder Career Planning System at www.vaview.org


Career Planning Guide at <http://www.cteresource.org/cpg/>

Most careers fall into one of the following **16 CAREER CLUSTERS** that have these possibilities with each pathway:


POSSIBILITIES WITH EACH PATHWAY


- *Useful in all professions:* knowledge and skills in core English, math, science and social studies courses
- *Required for many professions:* competence and knowledge of keyboarding, computer processing and applications as well as computer information systems
- *Bilingualism:* being able to understand and speak a world language is very useful in just about all professions
- *Industry Certifications, Credentials, and License:* course specific exams are available for many CTE courses in addition to NOCTI, National Career Readiness, and the Workplace Readiness Skills for the Commonwealth


Agriculture, Food & Natural Resources Production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources 	PATHWAYS	CAREER EXAMPLES	SUGGESTED COURSES
	Agribusiness Systems Animal Systems Environmental Service Systems Food Products & Processing Systems Natural Resources Systems Plan Systems Power, Structural & Technical Systems	Agricultural Equipment Operator, Animal Breeder, Biochemist, Botanist, Crop Grower, Ecologist, Farm/Ranch Manager, Fish and Game Officer, Floral Designer or Manager, Food Scientist, Forester, Geological Technician, Golf Course Superintendent, Nursery and Greenhouse Manager, Park Manager, Plant Breeder, Recycling Coordinator, Tree Surgeon, Veterinarian, Veterinarian Technician, Water Conservationist, Welder, Wildlife Manager	Invent and Innovate, Earth Science, Biology, Algebra Functions and Data Analysis (AFDA) Bridging Communities


Architecture & Construction Designing, planning, managing, building, and maintaining the built environment 	PATHWAYS	CAREER EXAMPLES	SUGGESTED COURSES
	Design/Pre-Construction Construction Maintenance/Operations	Architect, Architectural Drafter, Building Code Inspector, Carpenter, Civil Engineer, Construction and Building Inspector, Construction Manager, Cost Estimator, Drywall Installer, Electrical Engineering Technician, Electrician, General Contractor, Interior Designer, Landscape Architect, Mason, Mechanical Drafter, Mechanical Engineer,	Art, Geometry, Technology Foundations, Invent & Innovate Bridging Communities


		Project Manager, Restoration Technician, Roofer, Survey Technician, Surveyor, Tile Installer	
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Arts, A/V Technology & Communications Designing, producing, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services 	PATHWAYS	CAREER EXAMPLES	SUGGESTED COURSES
	A/V Technology & Film Printing Technology Visual Arts Performing Arts Journalism & Broadcasting Telecommunications	Actor, Animator, Art Director, Artist, Audio-Video Designer/Engineer; Audio and Video Equipment Technician, Broadcast Technician, Cinematographer, Commercial Photographer, Computer Programmer, Costume Designer, Desktop Publisher, Director, Editor, Engineer, Fashion Designer, Fashion Illustrator, Graphic Designer, Illustrator, Interior Designer, Lighting Designer, Multimedia Artist, Musician, Network Systems and Data Communication Analyst, Producer, Program Director, Radio/TV Announcer, Radio/TV Reporter, Sound Engineering Technician, Technical Director, Video/Film Editor, Videographer	Art, Band, Invent & Innovate Bridging Communities


Business Management & Administration Careers in every sector of the economy that encompass planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations 	PATHWAYS	CAREER EXAMPLES	SUGGESTED COURSES
	General Management Business Information Management Human Resources Management Operations Management Administrative Support	Account Executive, Administrative Assistant, Bill/Account Collector, Budget Analyst, Chief Operating Officer, Computer Operator, Court Reporter, Customer Service Representative, Data Entry Clerk, Desktop Publisher, Entrepreneur, Executive Assistant/Secretary, Financial Analyst, General Manager, Human Resources Manager, Legal Assistant, Librarian, Library Assistant, Medical Insurance Specialist, Medical Office Assistant, Medical Transcriptionist, Office Manager, Paralegal, Procurement Specialist, Project Manager, Public Relations Manager, Receptionist, Records Processing Assistant, Salesperson, Sales Manager, Shipping/Receiving Clerk, Technical Writer	AFDA, Algebra, Economics and Personal Finance


Education & Training Planning, managing, and providing education and training services, and related learning support services 	PATHWAYS	CAREER EXAMPLES	SUGGESTED COURSES
	Administration & Administrative Support Professional Support Teaching/Training	Child Care Worker, Director of Early Childhood Education Center, Instructional Coordinator, School Superintendent, School Teacher, Teacher Assistant, Training Consultant/Training Specialist	Office Specialist, Business Management


Finance Planning, services for financial and investment planning, banking, insurance, and business financial management 	PATHWAYS	CAREER EXAMPLES	SUGGESTED COURSES
	Securities & Investments Business Finance Accounting Insurance Banking Services	Accountant, Accounting Clerk, Actuary, Auditor, Bill and Account Collector, Branch Manager, Claims Examiner, Compliance Officer, Controller, Credit Analyst, Debt Counselor, Economist, Financial Manager, Insurance Appraiser, Loan Officer, Management Accountant, Merger and Acquisitions Manager, Personal Financial Advisor, Risk and Insurance Manager, Securities and Commodities Sales Agent, Tax Preparer, Teller, Title Researcher	Algebra, AFDA, Economics and Personal Finance,


Government & Public Administration Executing governmental functions at the local, state, and federal levels to include governance, national security, foreign service, planning, revenue and taxation, regulation, and management and administration 	PATHWAYS	CAREER EXAMPLES	SUGGESTED COURSES
	Governance National Security Foreign Service Planning Revenue & Taxation Regulation Public Management & Administration	Combat Specialty Officer, Compliance Officer, Court Clerk, Diplomatic Courier, Economic Development Coordinator, Economist, Financial Analyst, Foreign Service Worker, Government Accountant/Auditor, Interpreter/Translator, Investigator, Legislative Aide, Legislator, Lobbyist, Mail Carrier, Military Enlisted Personnel/Officer, Military Intelligence Specialist, Special Forces Personnel, Postal Service Clerk, Postmaster/Mail Superintendent, Private Detective, Real Estate Agent, Urban and Regional Planner	JROTC, Government, Civics and Economics, Economic and Personal Finance Bridging Communities


Health Science Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development 	PATHWAYS	CAREER EXAMPLES	SUGGESTED COURSES
	Therapeutic Services Diagnostic Services Health Informatics Support Services Biotechnology Research & Development	Audiologist, Biochemist, Cardiovascular Technologist, Certified Nurse Aide, CT Technologist, Dental Assistant, Dentist, Emergency Medical Technician/Paramedic, Epidemiologist, Front Office Assistant, Home Health Aide, Licensed Practical Nurse, Medical Assistant, Medical/Clinical Laboratory Technologist, Physical Therapist Assistant, Radiologic Technologist, Records Processing Assistant, Registered Nurse, Surgical Technologist, Veterinary Assistant	Biology, Chemistry, Health & PE 9 and 10 Bridging Communities

Hospitality & Tourism Encompassing the management, marketing, and operations of restaurants and other food services, lodging, attractions, recreation events, and travel-related services 	PATHWAYS	CAREER EXAMPLES	SUGGESTED COURSES
	Restaurants & Food/Beverage Services Lodging Travel & Tourism Recreation, Amusements & Attractions	Advertising/Promotions Manager, Bookkeeping/Accounting/Auditing Clerk, Caterer, Chief Engineer, Concierge, Cook, Director of Tourism Development, Executive Chef, Executive Housekeeper, Facilities Manager, Food Service Manager, Front Desk Clerk, Front Office Manager, Host/Hostess, Human Resources Manager, Lodging Manager, Marketing Manager, Meeting and Convention Planner, Recreation Worker or Supervisor, Reservationist, Retail Manager, Sports Promoter, Tour/Travel Guide, Travel Agent	AFDA, Marketing I & II Bridging Communities


Human Resources Preparing individuals for employment in career pathways that relate to families and human needs 	PATHWAYS	CAREER EXAMPLES	SUGGESTED COURSES
	Early Childhood Development & Services Counseling & Mental Health Services Family & Community Services Personal Care Services Consumer Services	Adult Daycare Coordinator, Career Counselor, Consumer Advocate, Cosmetologist, Debt Counselor, Dietician, Director of Early Childhood Education Center, Education/School Counselor, Grief Counselor, Marriage and Family Therapist, Mental Health Counselor, Nutritionist, Personal Trainer, Teacher Assistant, Volunteer Coordinator	Marketing I & II, AFDA, Economics and Personal Finance Bridging Communities


Information Technology Entry-level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services 	PATHWAYS	CAREER EXAMPLES	SUGGESTED COURSES
	Network Systems Information Support & Services Web & Digital Communications Programming & Software Development	Account Executive, Administrative Assistant, Computer Security Specialist, Computer Software Engineer, Computer Systems Engineer, Data Entry Specialist, Database Analyst, Executive Assistant, Game Designer, Geographic Information Systems (GIS) Technician, Graphic Designer, Information Systems Analyst, Maintenance Technician, Medical Transcriptionist, Network Architect, Network Systems and Data Communication Analyst, Programmer, Software Applications Engineer, Software Test Engineer, Systems Analyst, Web Developer, Webmaster	Computer Information Systems, Invent & Innovate Bridging Communities

Law, Public Safety, Corrections & Security Planning, managing, and providing legal, public safety, protective services, and homeland security, including professional and technical support services 	PATHWAYS	CAREER EXAMPLES	SUGGESTED COURSES
	Correction Services Emergency & Fire Management Services Law Enforcement Services Legal Services Security & Protective Services	Arbitrator, Attorney, Corrections Officer, Court Reporter, Customs Inspector, Dispatcher, Emergency Medical Technician, Firefighter, Fire Investigator, Forensic Science Technician, Hazardous Materials Removal Worker, Paralegal, Paramedic, Police Officer, Private Detective/Investigator, Probation/Parole Officer, Security Officer, U.S. Marshal	JROTC, Government, US History, World Languages, Biology: Forensic Science Bridging Communities

Manufacturing Planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities 	PATHWAYS	CAREER EXAMPLES	SUGGESTED COURSES
	Production Manufacturing Production Process Development Maintenance, Installation & Repair Quality Assurance Logistics & Inventory Control Health, Safety & Environmental Assurance	Assembler, Automated Manufacturing Technician, Electro-Mechanical Technician, Extruding and Drawing Machine Operator, Industrial Engineering Technician, Logistician, Manufacturing Systems Engineer, , Network Designer, Production Manager, Quality Control Technician, Safety Engineer, Statistical Process Control Coordinator, Tool and Die Maker, Welder	AFDA, Technology Foundations, Invent & Innovate Bridging Communities

Marketing Planning, managing, and performing marketing activities to reach organizational objectives 	<i>PATHWAYS</i>	<i>CAREER EXAMPLES</i>	<i>SUGGESTED COURSES</i>
	Marketing Management Professional Sales Merchandising Marketing Communications Marketing Research	Advertising and Promotions Manager, Art Director, Brand Manager, Chief Executive Officer, Franchisee, Intranet Entrepreneur, Manufacturer's Sales Representative, Market Research Analyst, Marketing Manager, Media Planner/Buyer, Merchandise Buyer, Merchandise Displayer/Window Trimmer, Merchandise Manager, Operations Manager, Product Planner, Public Information Manager, Public Relations Specialist, Retail Manager, Sales Manager, Salesperson	Marketing I & II

Science, Technology, Engineering & Mathematics Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services 	<i>PATHWAYS</i>	<i>CAREER EXAMPLES</i>	<i>SUGGESTED COURSES</i>
	Engineering & Technology Science & Mathematics	Animal Scientist, Architect, Chemical Engineer, Civil Engineer, Computer Hardware/Software Engineer, Computer Programmer, Electrical Engineer, Environmental Engineer, Landscape Architect, Network and Computer Systems Administrator, Oceanographer, Project Manager, Quality Engineer, Research Chemist, Statistician, Systems Analyst, Telecommunications Specialist, Toxicologist, Veterinarian	Biology: Forensic Science, Chemistry, Earth Science, Technology Foundations Bridging Communities

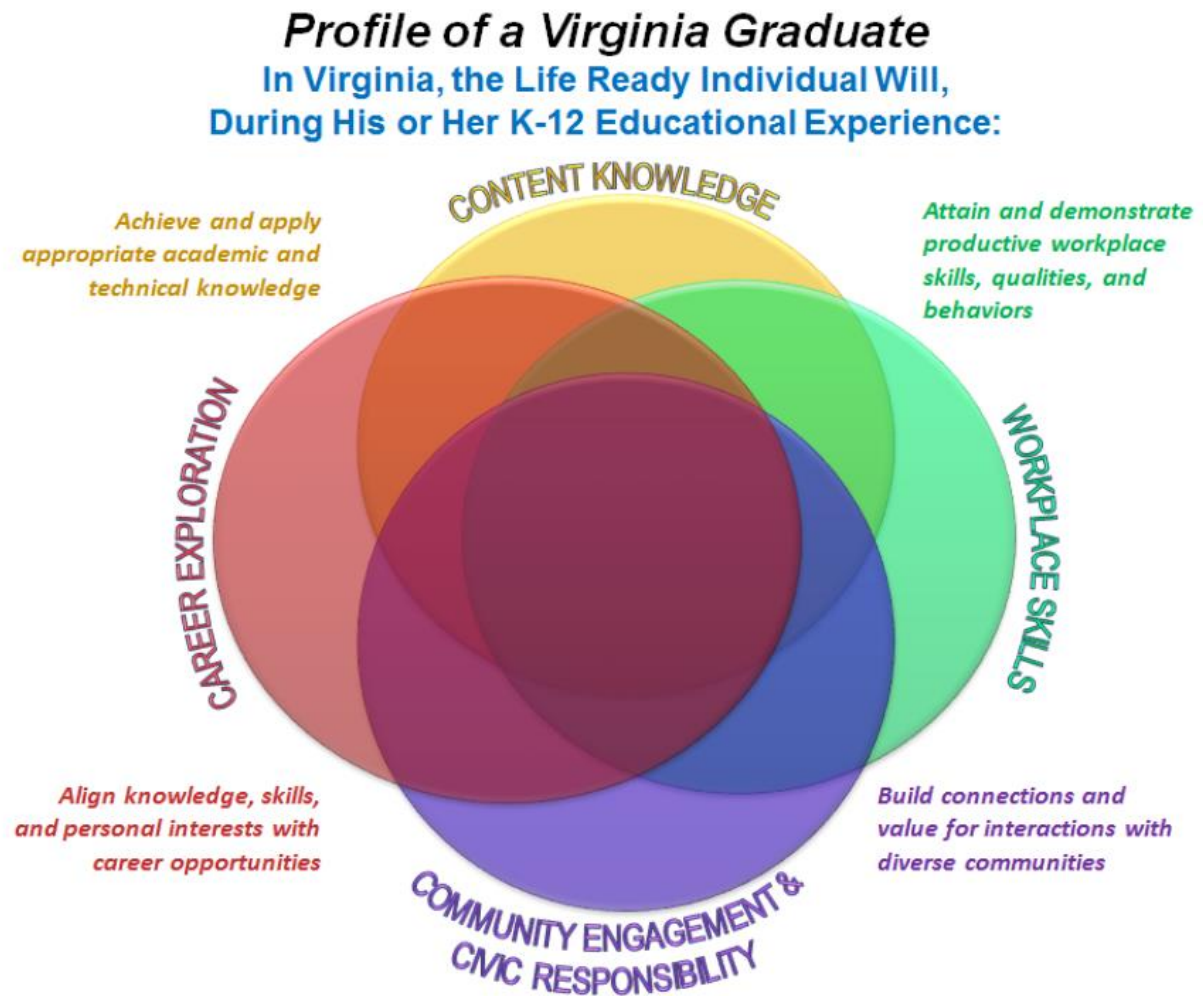
Transportation, Distribution & Logistics Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water and related support services dealing with infrastructure, logistics, equipment, and facilities 	PATHWAYS	CAREER EXAMPLES	SUGGESTED COURSES
	Transportation Operations Logistics Planning & Management Services Warehousing & Distribution Center Operations Facility & Mobile Equipment Maintenance Transportation Systems/Infrastructure Planning, Management & Regulation Health, Safety & Environmental Management Sales & Services	Automotive Body and Related Repairer, Automotive Glass Installer and Repairer, Automotive Service Technician, Customer Service Representative, Diesel Service Technician, Dispatcher, Electrical and Electronic Installer/Repairer, Health/Safety/Environment Manager, Mechanic, Parts Salesperson, Service Technician, Small Engine Mechanic	Invent & Innovate, Technology Foundations Bridging Communities

PROFILE OF A GRADUATE

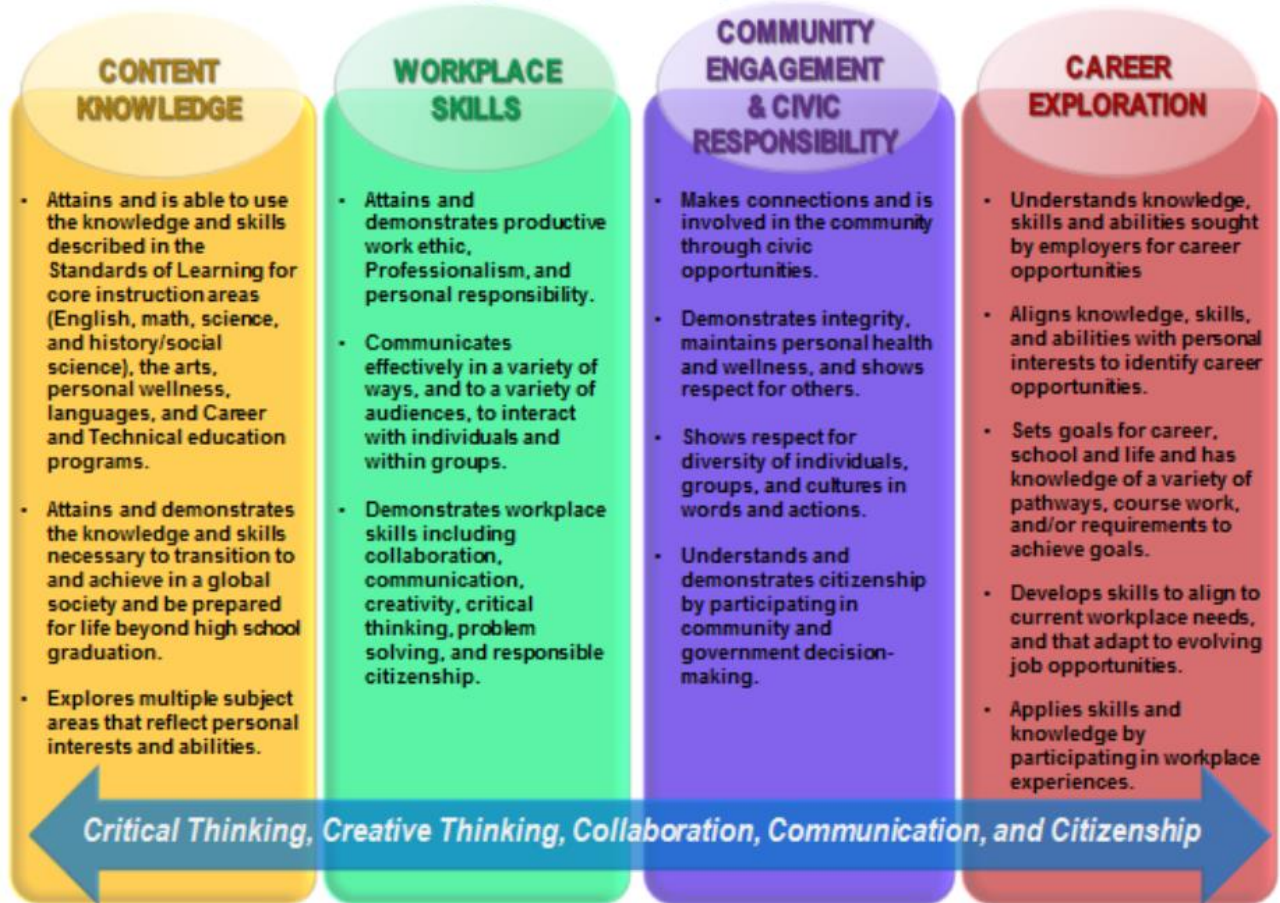
The Virginia Board of Education's *Profile of a Graduate* describes the knowledge, skills, attributes and experiences that students must attain for success in college and/or the workforce and be prepared for life in the rapidly changing world. In Virginia, a graduate will:

- ✓ Achieve and apply appropriate academic and technical knowledge (content knowledge)
- ✓ Attain and demonstrate productive workplace skills, qualities, and behaviors (workplace skills)
- ✓ Build connections and value for interactions with diverse communities (community and civic responsibility)
- ✓ Align knowledge, skills and personal interests with career opportunities (career planning)

Note the graphic below:



Profile of a Virginia Graduate
In Virginia, the Life Ready Individual:



The Profile of a Graduate results from the intersection of four areas for student engagement and learning: content knowledge, workplace skills, community and civic responsibility, and career planning. Through a student's experience with these four areas, students develop the following competencies known as the "Five C's":

- ✓ Critical Thinking
- ✓ Creative Thinking
- ✓ Communication
- ✓ Collaboration
- ✓ Citizenship

GENERAL INFORMATION

INSTRUCTIONAL GROUPINGS

In order to provide students with settings in which they can work most successfully, grouping and regrouping of students on the basis of achievement and need is a standard procedure used. Students' achievement as reflected on their grades and their standardized and diagnostic tests, along with teacher recommendations are used collectively to determine students' grouping needs which may include some pull out enrichment or remediation experiences to enhance and support a students' learning. Some courses will be marked H for Honors.

HONORS

Honor level course work is designed to provide challenging experiences where students are expected to demonstrate rich, divergent thinking during inquiry-based discussions as well as reflect it in their work. Students who are not flourishing in this environment will be assigned to a more appropriate setting.

In order to participate in honor level coursework, a student must have:

- Met the criteria on the academic teacher recommendation form
- Passing scores for all SOL tests with 450 or higher
- Passing grades from the previous year (A or B in content seeking honors participation)
- An attendance record that positively impacts academic success

The following characteristics are required of a student in honors level classes:

Honors classes require students to work independently.

Students are responsible for asking questions when they do not fully understand material. Students must be prepared to spend a greater amount of time on homework. In addition, they must seek extra help from their teachers, if needed. Students should be able to organize and manage time and materials efficiently.

Honors classes require students to develop personal commitments and a strong work ethic.

Simply attending classes and behaving acceptably is not adequate. Students must participate in discussions and activities. They must develop an active interest in the concepts they are learning, engage these concepts, and actively seek answers to questions. Students must commit to doing their best work, not the least work necessary, for a high grade.

Honors classes require students to value learning.

While grades are important and taken seriously, learning must be the first priority of students. Students must be able to learn from mistakes. Students must learn to think through complex questions and articulate answers thoughtfully.

Honors classes require students to embrace challenge.

Students cannot resist a task because it is new or difficult. When work is "easy," students may be practicing skills rather than learning new ones. Discomfort with new tasks is normal and students must be willing to take risks. They must do their best and strive to see the purpose of the work they are doing.

Honors classes require students to take an interest in the subject.

Students must be willing to analyze their work in detail and participate in lengthy discussions and projects. Each level of an accelerated class is preparation for the next. Students must not limit themselves to the assigned material, but continually strive to learn more by engaging in outside reading, doing additional research, etc.

Honors classes require intensive reading and writing practice.

Students will be expected to complete regular reading and writing assignments inside and outside of school. They will be expected to meet reading goals in sixth, seventh, and eighth grades. Students will use the writing process for

all major papers and carefully revise essays for written expression, usage, and mechanics. They will be expected to write essays that are increasingly analytical.

GIFTED PROGRAM

Charles City County strives to recognize and identify diverse gifted learners and provide the educational services and opportunities to meet their unique needs and potential. We are committed to non-discriminatory identification of and appropriate provision for students, grades K-12, manifesting an advanced level of general intellectual aptitude and/or specific academic aptitude.

We realize that the abilities and needs of the gifted and talented differ from the norm and require special educational provisions. Therefore, we believe the gifted and talented curriculum and the continuum of services should be directed toward providing identified students with quality education that allows for individualization and enrichment, along with academic requirements. To this end, we are committed to a Talent Development model of giftedness in English and Mathematics.

Delivery of Services may include but not be limited to:

- In-class challenge lessons (grades K-1)
- Small group pull out challenge lessons (grades 1-6)
- Summer Regional Governor's School experiences (grades 3-8)
- Honors classes in specific content areas (grades 8-12)
- Advanced Placement (AP) classes in specific content areas (grades 10-12)
- Dual Enrollment in specific content areas (grades 11-12)
- Appomattox Regional Governor's School for the Arts and Technology (grades 9-12)
- Maggie L. Walker Regional Governor's School for Government and International Studies (grades 9-12)
- Enrichment activities and competitions such as National History Day, and Scholastic Bowl

Please see the gifted resource teacher at school or visit our website for more information (www.ccps.net).

PROMOTION

Students are promoted to the next grade level based upon achievement in all subject areas and successful completion of their English, math, science and history/social science courses. Some students may need to successfully complete – based on individual academic indicators - a summer remediation program in order to be considered for promotion to the next grade the following year. Likewise, some students may be promoted but will be required to participate in additional remediation the following year which could include a particular instructional regrouping or taking a particular course that best meets the student's instructional needs. Some students may be required to successfully complete both the summer program and participate additional remediation the following year. Successful completion – based on individual academic indicators - of these opportunities will be a determining factor in the continued promotion of a student.

Students in grades 7 and 8 are promoted to the next grade level based upon achievement in all subject areas and successful completion of their English, math, science and history/social science courses. Likewise, some students may be promoted but will be required to participate in additional remediation the following year which could include a particular instructional regrouping or taking a particular course that best meets the student's instructional needs. Some students may be required to successfully complete both the summer program and participate additional remediation the following year. Successful completion – based on individual academic indicators - of these opportunities will be a determining factor in the continued promotion of a student. Once students are promoted to the 9th grade, promotion to the next grade level is based upon the number of credits earned: 10th grade requires 5 credits; 11th grade requires 11 credits; 12 grade requires having enough credits scheduled to be a candidate for June graduation.

SECONDARY PROGRAM OF STUDIES

REFLECTING COLLEGE AND CAREER READINESS



GENERAL INFORMATION

COURSE REQUEST AND SCHEDULING

In the spring of the second semester, secondary students, with the assistance of parents and the school counselor, will make course selections for the following school year. Students and parent(s)/guardian(s) will verify their course selections by a designated due date. Once the courses have been verified, course or schedule changes will be made only if there is an error in the schedule due to computer entry, a change in placement or recommendation, a course was completed over the summer, or a course will no longer be available.

COURSE AVAILABILITY

Required courses descriptions are explained in terms of the standards that will be examined along with brief descriptions for electives. However, not all courses are available every year. The availability of these options for the various courses will be reexamined each school year. Different factors may impact a course not being available a particular year that could include availability of staff, low enrollment, or budgetary constraints.

Additionally, at the secondary level, some courses may be available in a variety of formats and levels such as a semester course, as an online virtual course, as a blended learning course, or as remedial or honors level as well as for college credit such as dual enrollment or advanced placement. Online courses may include, but are not limited to, Career and Technical Education (CTE) classes such as Intro to Health Sciences, Nursing Assistant, or Information Tech Foundations. Possible blended courses in English and Government or other core content may also be available. Some learning opportunities may also require a placement test or an audition. All electives must be approved by the school counselor to ensure that the various graduation requirements will be met in accordance to the selected academic and career plan of the student.

SECONDARY COURSE DESCRIPTIONS

FOR GRADES 7-12

Reminders:

- Not all courses are available every year nor are all course formats or levels available every year (online, semester, year-long, dual enrollment, advanced placement, etc.). The availability of these options for the various courses will be reexamined each school year.
- Some learning opportunities may require meeting a prerequisite or set criteria, taking a placement test, or an audition.
- Some schedules may be administratively changed in order to ensure a student's progression and support towards graduation.

GENERAL COURSES

ECONOMICS & PERSONAL FINANCE MS6120

GRADES 10-12

1 REQUIRED CREDIT

Required for graduation. Students will learn 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.

ACADEMIC STUDY SKILLS 7 MC013007

ACADEMIC STUDY SKILLS 8 MC013008

GRADES 7-8

This course is designed to increase the academic success of the students in their high school course work with the needed organizational and study skills. Course objectives focus on improving memory, test taking, note taking, and class participation skills. Students will incorporate their own learning styles to help them develop effective study techniques, time management (personal and school), communication skills, and academic work habits. This course may be REQUIRED for some students based on academic indicators and/or other needs for one or both semesters.

ACADEMIC STUDY SKILLS 9 MC013009
ACADEMIC STUDY SKILLS 10 MC013010
ACADEMIC STUDY SKILLS 11 MC013011
ACADEMIC STUDY SKILLS 12 MC013012

GRADES 9-12

1 CREDIT EACH

This course is designed to increase the academic success of the students in their high school course work with the needed organizational and study skills. Course objectives focus on improving memory, test taking, note taking, and class participation skills. Students will incorporate their own learning styles to help them develop effective study techniques, time management (personal and school), communication skills, and academic work habits. This course may be REQUIRED for some students based on academic indicators and/or other needs for one or both semesters.

TEST PREPARATION MC22005

GRADES 9-12

1 CREDIT EACH

Students may be enrolled in this course to prepare for a specific assessment, including, but not limited to SOL testing. This course will provide students with practice in test-taking skills while reviewing relevant content that meets each students' individual needs.

ENGLISH

Students must earn a minimum of four credits with two verified to graduate

REQUIRED AND SUGGESTED COURSES



ENGLISH 7 EN1110

ENGLISH 8 EN1120

GRADES 7 AND 8

REQUIRED

These courses provide opportunities for students to strengthen reading skills, including the development of content-area reading and study skills. Emphasis is placed on composition, literature, vocabulary development, listening and speaking skills.

ENGLISH 7 HONORS EN1110H

ENGLISH 8 HONORS EN1120H

GRADES 7 AND 8

Prerequisite: Meet honors criteria. This course provides an opportunity for students to enhance the skills needed for successful academic performance in later advanced English classes. Increased emphasis is placed on a variety of composition and literature, critical thinking skills as well as continued work on vocabulary development and speaking skills.

ENGLISH 9 EN1130

ENGLISH 10 EN1140

ENGLISH 11 EN1150

ENGLISH 12 EN1160

GRADES 9-12

1 REQUIRED CREDIT EACH

Prerequisite: Successful completion with previous year's English. Each year students write increasingly longer narrative forms; more abstract expository and persuasive essays; and more fully documented research papers. Units integrate literature study with the skills of reading, writing, speaking, and listening. At each grade level, reading comprehension, vocabulary development, grammar, mechanics, thinking skills, and oral communication skills are emphasized. SOL REQUIRED IN READING (grade 11) AND WRITING (grade 10) IN ENGLISH.

ENGLISH 9 HONORS EN1130H

ENGLISH 10 HONORS EN1140H

ENGLISH 11 HONORS EN1150H

ENGLISH 12 HONORS EN1160H

GRADES 9-12

1 CREDIT EACH

Prerequisite: Successful previous year's English and meeting honors criteria. Each year students will strengthen their critical thinking skills by extensive discussion and writing activities. The literature studied is taken from core texts and teacher-selected supplemental titles and is comprised of world classics. Students write for diverse audiences and purposes. Emphasis is placed on the writing of arguments, literary analyses, fully documented research reports, and commentaries on novels, plays, and poems. SOL REQUIRED IN READING AND WRITING IN ENGLISH 11.

ENGLISH 12 – DUAL ENROLLMENT EN1160DE

GRADE 12

1 WEIGHTED CREDIT /COLLEGE CREDIT

Prerequisite: Students must take a placement test administered by John Tyler Community College and earn a minimum score as determined by the community college. 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; edit for effective style and usage; and determine appropriate approaches for a variety of contexts, audiences, and purposes. This course continues to develop college writing with increased emphasis on critical essays, argumentation, and research. Requires students to locate, evaluate, integrate, and document sources and effectively edit for style and usage.

READING SEMINAR EN1107

GRADES 7 AND 8

This course enables students to further their reading skills through comprehension and vocabulary study. The course will also address study skills, writing, and research skills. Students will use a variety of computer programs to complement their reading development.

MATHEMATICS

Standard Diploma: Students must earn a minimum of three credits with one verified

Advanced Studies Diploma: Students must earn a minimum of four credits with two verified

REQUIRED AND SUGGESTED COURSES



MATH 7 MA3111

GRADE 7

This course is designed to strengthen students' skills in problem solving and mathematical concepts and build a foundation for Algebra I. The course addresses the seventh grade math Standards of Learning in the areas of number sense, computation, estimation, measurement, geometry, probability, statistics, patterns, functions, and algebra. SOL REQUIRED – MATH 7

MATH 8 MA3112

GRADE 8

This course is designed to provide a preliminary study of the concepts of algebra and to strengthen students' skills in problem solving and mathematical concepts. The course addresses the eighth grade math Standards of Learning for middle school in the areas of number sense, computation, estimation, measurement, geometry, probability, statistics, patterns, functions, and algebra. SOL REQUIRED – MATH 8

MATHEMATICS SEMINAR MA3199

GRADES 7 AND 8

This course enables students to strengthen basic math skills, including foundational number sense, computational skills, and algebraic thinking.

ALGEBRA I MA31301

GRADES 8-10**1 CREDIT**

This course studies the algebraic concepts needed to solve algebraic equations. Students use algebra as a tool for representing and solving a variety of practical problems. Tables and graphs are used to interpret algebraic expressions, equations, and inequalities and to analyze functions. Students make connections and build relationships among algebra and arithmetic, geometry, and probability and statistics. Completion of both parts in one year will result in 1 math credit. Students will be additionally encouraged to work at a pace and depth designed to prepare them for the academic challenges that lie ahead, and one that requires discipline and individual responsibility. SOL REQUIRED for Algebra 1B and Algebra 1H.

GEOMETRY MA31431

GRADES 9-12**1 CREDIT**

Prerequisite: Completion of Algebra I. These courses offer a study of plane, three-dimensional, and coordinate geometry. Methods of justification of theorems include: paragraph proofs, flow charts, two-column proofs, indirect proofs, coordinate proofs, and verbal arguments. The courses emphasize two-dimensional and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. Completion of both parts in one year will result in 1 math credit. Students will be additionally encouraged to work at a pace and depth designed to prepare them for the academic challenges that lie ahead, and one that requires discipline and individual responsibility. SOL REQUIRED.

COMPUTER MATHEMATICS MA3184

GRADES 10-12**1 CREDIT**

Prerequisite: Algebra I. Computer mathematics provides students with real-life readiness experiences in workplace computer applications, personal finance, and computer programming techniques and skills. Mathematics problems focus on the analysis of data in charts, graphs, and tables and the use of knowledge of equations, formulas and functions.

ALGEBRA FUNCTIONS & DATA ANALYSIS (AFDA) MA3134

GRADES 10-12**1 CREDIT**

Prerequisite: Completion of Algebra I and Geometry. Within the context of mathematical modeling and data analysis, students will study functions and their behaviors, systems of inequalities, probability, and experimental

design and implementation. Data will be generated by practical applications arising from science, business, and finance. NOTE: This course is designed to be completed prior to Algebra II. May be taken after Algebra I or Geometry.

ALGEBRA II MA3135

GRADES 10-12

1 CREDIT

Prerequisite: Algebra I, Geometry and meet the criteria. The content of this course provides a thorough treatment of advanced algebraic concepts through the study of functions, polynomials, rational expressions, complex numbers, matrices, sequences, and series. Emphasis is placed on practical applications and modeling. The courses also include a transformational approach to graphing functions. Upon successful completion of Algebra II, students will earn 1 math credit. SOL REQUIRED for Algebra II.

PRE-CALCULUS HONORS MA3162

GRADES 10-12

1 CREDIT

Prerequisite: Algebra I, Geometry, and Algebra II. This course ties together the previous content obtained from algebra, geometry, and serves as a preparatory course for calculus. Mastery of critical skills and new skills for subsequent math courses underscore the focus of this course. Students are exposed to linear, quadratic, exponential, logarithmic, radical, polynomial, and rational functions. Other content includes: polar functions and notation, arithmetic of complex numbers, trigonometric ratios and functions, inverse trigonometric functions, and applications of trigonometry.

ADVANCED PLACEMENT (AP) CALCULUS MA3177AB

GRADES 10-12

1 CREDIT

Prerequisite: Pre-Calculus Honors. This course is an accelerated college-level course. Content includes: functions, graphs, limits, asymptotic and unbounded behavior, derivatives and associated applications. Additionally, interpretations and properties of integrals, applications, polynomial approximations and series are studied.

MATHEMATICS SEMINAR MA0110

GRADES 9-12

1 CREDIT

This course enables students to strengthen basic math skills, including foundational number sense, computational skills, and algebraic thinking.

SCIENCE

REQUIRED AND SUGGESTED COURSES



ELECTIVES

Biology II DE Biology II: Forensic Science Earth Science II: Astronomy
 Environmental Science

LIFE SCIENCE SC4115

GRADE 7

REQUIRED

Life science studies metric units, scientific method & experiments, the five kingdoms of living things, needs & characteristics of living things, interdependence among organisms and their non-living environment, ecosystems and biomes, adaptations of plants and animals, cells and their organization and function, photosynthesis and respiration, natural selection, genetics, cycles in nature, and changing natural environments and man's impact on them.

PHYSICAL SCIENCE SC4125

GRADE 8

REQUIRED

This introductory course to physics and chemistry explores concepts such as motion, light, sound, energy, and matter. Hands-on laboratory experiences are emphasized. In this laboratory-oriented course students investigate basic concepts of matter and energy. The steps of the scientific method are emphasized throughout the course. SOL REQUIRED - CUMMLATIVE SCIENCE 6, 7, AND 8)

EARTH SCIENCE SC4210

GRADES 9-12

1 CREDIT

Earth Science I is the study of the Earth's composition, structure, processes and history; its atmosphere, fresh water, and oceans; and its environment in space. It emphasizes historical contributions in the development of scientific thought about Earth and space. Earth Science stresses the interpretation of maps, charts, tables, and profiles; the use of technology to collect, analyze and report data; and science skills in systematic investigation. Problem solving and decision making are integral parts of the course, especially as they relate to the costs and benefits of utilizing the Earth's resources. Major topics of study include plate tectonics, the rock cycle, Earth history, the oceans, the atmosphere, weather and climate, and the solar system and universe. SOL REQUIRED

BIOLOGY SC4310

GRADES 9-12

1 CREDIT

Students learn basic concepts of life, including, cell structure and processes, ecology, organic variation and a survey of the kingdoms of organisms with an emphasis on human biology. Students will do some field studies near the school and dissect various invertebrate and vertebrate animals. SOL REQUIRED

CHEMISTRY SC4410

GRADES 10-12

1 CREDIT

Prerequisite: Biology I and must be enrolled in or have already completed Algebra II. Chemistry students are introduced to basic chemical concepts including the composition of matter, atomic structure, periodic table, chemical bonding, formulas and equations, reacting quantities, and acid base theory. Laboratory experiments are used to teach conceptual themes through abstract reasoning and process skills. Students are expected to use the scientific method to discover scientific principles and to submit written laboratory reports. Laboratory experiences make up at least 50% of the instructional time and are the framework within which students can expect to study the key concepts. SOL REQUIRED

PHYSICS SC4510

GRADES 11-12

1 CREDIT

Prerequisite: Chemistry and Algebra II. The Physics course emphasizes a more complex understanding of experimentation, the analysis of data, and the use of reasoning and logic to evaluate evidence. Students build on basic principles of physical science by exploring in depth the nature and characteristics of energy and its dynamic interaction with matter. Key areas covered include force and motion, kinetic molecular theory, energy transformations, wave phenomena and the electromagnetic spectrum, light, electricity and scientific investigation. The course stresses the practical application of physics in other areas of science and technology and how physics

affects our world. Students are expected to use the scientific method to discover scientific principles. Laboratory experiences make up at least 50% of the instructional time and are the framework within which students can expect to study the key concepts.

BIOLOGY II: FORENSIC SCIENCE SC4320

GRADES 11-12

1 CREDIT

Pre-requisites: Biology I. This is a multidisciplinary laboratory course giving students an appreciation of how scientific concepts are applied to real world situations, specifically forensic investigations. Topics of study will include the history of forensic science and major forensic disciplines such as fingerprinting, questioned documents, entomology, anthropology, DNA analysis, serology, trace evidence, pathology, etc., as well as law and ethics and current legal issues affecting the field of forensic science. After learning basic concepts, student will apply their knowledge to the investigation of simulated crime scenes and participate in mock trials. This course focuses on problem solving, with an emphasis on writing, using experimentation, theorization, and research, synthesizing information and making evidence-based conclusions. Laboratory experiences make up at least 50% of the instructional time and are the framework within which students can expect to study the key concepts.

EARTHSCIENCE II: ASTRONOMY SC4260

GRADES 11-12

1 CREDIT

Pre-requisites: Earth Science. This astronomy course provides an in-depth study of the solar system, its suns, stars, and the structure and development of the universe. Space travel, history, and issues in space exploration will be considered. Successful completion of the course requires students to revisit physics concepts such as gravity, orbital motions, paths of projectiles, and the Theory of Relativity.

ENVIRONMENTAL SCIENCE SC3003

GRADES 10-12

1 CREDIT

Pre-requisites: Biology I. Environmental science provides students with thematic connections between a variety of science disciplines such as biology, chemistry, and physics. Students will be exposed to how scientific concepts apply to our environment. Content includes human population growth, natural resources, and ecosystem dynamics. Scientific critical thinking skills are applied as students increase their knowledge of the environmental challenges facing our world.

DUAL ENROLLMENT BIOLOGY SC4700DE

GRADE 12

1 WEIGHTED CREDIT AND COLLEGE CREDIT

Prerequisite: Biology I and Chemistry I. As a course operated through John Tyler Community College, the student may need to take and pass the Virginia Placement Test. This course presents the latest developments and advances in the field of biology and prepares students for the major course sequence in the biology/pre-med and endorsement curriculums. Emphasis will be placed on chemistry, cell biology, cell division, genetics and biotechnology.

HISTORY AND SOCIAL STUDIES

REQUIRED AND SUGGESTED COURSES

U.S. & Global
Studies

Civics &
Economics

World History
I

Elective

VA/US History

VA/U.S.
Government

US & GLOBAL STUDIES SS2996

GRADE 7**REQUIRED**

This foundational course explores the issues and relationships between communities, cultures, environments, and their people both within the United States and in the world. Particular focus is the role and definition of “us” within America and the world. Emphasis is also given to geographic locations, concepts and skills.

CIVICS & ECONOMICS SS2347

GRADE 7- 8**REQUIRED**

This course emphasizes the roles and responsibilities of informed citizens in a democracy. Examination of the U.S. and Virginia constitutions provides the basis for the study of governments at the national, state, and local levels. Students explore economic systems and the role government plays in the operation of the economy of the United States. NOTE: Some 7th graders who meet the honors criteria may be eligible for this course. SOL REQUIRED

WORLD HISTORY I SS2215

GRADES 9-12**1 CREDIT**

Students will explore the historical development of people, places, and patterns of life from ancient times until 1500 A.D. in terms of the impact on Western civilization. The study of history rests on knowledge of dates, names, places, events, and ideas. Historical understanding, however, requires students to engage in historical thinking, raise questions, and marshal evidence in support of their answers. Therefore, students will be engaged in historical thinking which draws upon chronological thinking, historical comprehension, historical analysis and interpretation, historical research, and decision making. SOL REQUIRED

WORLD HISTORY II SS2216

GRADES 9-12**1 CREDIT**

Prerequisite: Previous World History I performance and a verified credit in social studies. Students examine the history and geography from 1500 A.D. (C.E.) to the present, with emphasis on development of the modern world. Geographic influences on history will continue to be explored, but increasing attention will be given to political boundaries that developed with the evolution of nations. Significant attention will be given to the ways in which scientific and technological revolutions created new economic conditions that in turn produced social and political changes. Noteworthy people and events of the nineteenth and twentieth centuries will be emphasized for their strong connections to contemporary issues. SOL REQUIRED

VIRGINIA & US HISTORY SS2360

GRADE 11**1 REQUIRED CREDIT**

This course provides a chronological study based upon an identification and analysis of the events, problems, issues, movements, and personalities that have affected the development of the United States from the Age of Exploration to the present. The student focuses on political, economic, cultural, and social history. Virginia’s role in the history of the United States is emphasized. SOL REQUIRED

VIRGINIA & US GOVERNMENT SS2440

GRADE 12**1 REQUIRED CREDIT**

This course provides students with the knowledge that enables them as citizens to participate effectively in civic and economic life. Students will apply social science skills as a foundation to examine fundamental constitutional principles, the rights and responsibilities of citizenship, the political culture, the policy-making process at each level of government, and the characteristics of the United States economy. The standards emphasize an understanding of the duties and responsibilities that facilitate thoughtful and effective participation in the civic life of an increasingly diverse democratic society. The standards also reflect the evolving political and economic roles of Virginia and the United States in the global community.

HEALTH AND PHYSICAL EDUCATION

A minimum of two Health and Physical Education HS credits are required for graduation



HEALTH & PE 7 HP7120

HEALTH & PE 8 HP7200

GRADES 7-8

REQUIRED

These courses incorporate activities designed to develop lifetime physical fitness and conditioning through participation in selected team and individual activities. Emphasis is placed on students learning basic skills and acquiring competence and confidence necessary to participate in and enjoy physical activity. Students are provided with learning experiences that help them acquire current health information and practice essential skills for making healthy decisions

HEALTH & PE 9 HP7300

GRADE 9

REQUIRED - 1 CREDIT

In this course, health units include the study of disease, consumer and environmental health issues, first aid, and Family Life Education. Physical education units include instruction in physical fitness and conditioning, individual and dual sports, and team sports.

HEALTH & PE 10 HP7400

DRIVER'S EDUCATION HP7015

GRADE 10

REQUIRED - 1 CREDIT

Prerequisite: Successful completion of Health & PE 9. Students will also be enrolled for Driver's Education simultaneously. This course is divided among classroom health, classroom driver education, and physical education. The health curriculum includes Family Life Education. The physical education curriculum includes the study of physical fitness, individual and dual sports, and team sports. The classroom driver education course is offered as part of the tenth grade health education curriculum. When students successfully complete the classroom phase and have secured a learner's permit, they then may participate in behind-the-wheel driver instruction (not provided by Charles City Public Schools).

WORLD LANGUAGES

SPANISH I WL5510

GRADES 7-12

1 CREDIT

Prerequisite for grades 7 – 8: Meet honors criteria with teacher recommendation from your English teacher and a C or better in the class. Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students learn basic skills in listening, speaking, reading and writing with an emphasis on the ability to communicate orally and in writing in various social and academic settings. This course will require nightly homework, ongoing studying, memorization, and practice in order to build the foundation necessary to succeed. As much as possible, the class is conducted in the target language (French or Spanish). Successful students will exit the course with a Novice-Mid Proficiency level on the ACTFL scale in the areas of listening, speaking, reading, and writing.

SPANISH II WL5520

GRADES 8-12

1 CREDIT

Prerequisite: C or better in level 1 of selected World Language. Students continue to develop proficiency in all four language skills: listening, speaking, reading, and writing, with emphasis on the ability to communicate orally and in various social and academic settings. Emphasis is placed on real-life situations, reading materials, and producing short writings using more complex sentences and language structures within the cultural context of home life, student life, leisure time, vacation, and travel. The use of technology is encouraged to implement and enhance the students' studies. As much as possible, the class is conducted in the target language (French or Spanish). Successful students will exit the course with a Novice-High Proficiency level on the ACTFL scale in the areas of listening, speaking, reading, and writing.

SPANISH III WL5530

SPANISH IV WL5540

GRADES 9-12

1 CREDIT

Prerequisite: C or better in level 2 of selected World Language. Students continue to develop proficiency in all four language skills: listening, speaking, reading, and writing, with an emphasis on the ability to communicate orally and in writing at a higher level with minimal use of English in the classroom. Emphasis is on communication using more complex sentences and language structures within the cultural context of home life, student life, leisure time, vacation and travel. The speaker can generally be understood by a sympathetic audience. Level 3 classes are conducted almost entirely in the target language (French or Spanish). The use of technology is encouraged to implement and enhance the students' studies. Successful students will exit the course with an Intermediate-Low Proficiency level on the ACTFL scale in the areas of listening, speaking, reading, and writing.

FINE ARTS

VISUAL ARTS

ART 7 FA9105

GRADE 7

This course is designed for students to study the principles and elements of design and participate in activities designed to develop skills in drawing and painting. Art history, criticism, aesthetics and production make up the four art disciplines integrated into this course.

ART 8 FA9115

GRADES 7-8

This course is designed for students to study the principles and elements of design and participate in activities designed to develop skills in drawing and painting.

ART FOUNDATIONS FA9120

GRADES 9-12

1 CREDIT

This foundational course is an introduction to artists, art media, and studio techniques; a hands-on studio course including art history, art appreciation and understanding art as a visual language. Students maintain a portfolio documenting their artistic accomplishments to take to the next level of art study. Students will have opportunities to exhibit their work.

DRAWING & PAINTING FA9130

GRADES 10-12

1 CREDIT

Prerequisite: Art Foundations. This course is designed for students interested in further developing and refining their ideas, techniques and skills in drawing and painting. The study of big ideas and themes through aesthetics, art history, art criticism, and art production are included in classroom projects. Students will keep a sketchbook or journal to document and effect on their artmaking process. In addition to work in class, students will develop a portfolio of artworks and participate or exhibit in various local and regional art shows.

INDEPENDENT STUDY MC0115

GRADES 11-12

1 CREDIT

This course is available to those students that have demonstrated high achievement in art classes and are serious about a future in art. This course is arranged, planned, and managed by the supervising teacher in conjunction with the goals that are proposed by the student. Students are expected to exhibit self-discipline and a strong sense of direction.

MUSIC

MUSIC 7 FA9231

GRADE 7

This elective course provides students with an introductory exposure to the basic materials and processes of music.

MUSIC 8 FA9232

GRADE 8

This elective course provides students with musical knowledge and skills, including learning proper vocal techniques and how to play the guitar. Students are exposed to the ways in which music is used in different cultures and across various fine arts.

BAND 7 FA9231

GRADES 9-12

1 CREDIT

This course is an introductory course for students who do not have any previous experience playing wind or percussion instruments, or for students who wish to change instruments. Emphasis is placed on hand position, tone production, music reading, and basic theory.

BAND 8 FA9229

GRADES 9-12

1 CREDIT

This course continues to build on the basic fundamentals of musicianship learned in Band 7. More advanced techniques will be taught, as well as the mastery of more major scales. At this level, students are ready to audition for "Area and District Bands" as well as be eligible to participate in the Marching Band.

BAND I FA9232

GRADES 9-12

1 CREDIT

This course is an introductory course for students who do not have any previous experience playing wind or percussion instruments, or for students who wish to change instruments. Emphasis is placed on hand position, tone production, music reading, and basic theory. Students are expected to perform in musical competitions, festivals, and assessments.

BAND II FA9233**GRADES 9-12****1 CREDIT**

Prerequisite: Audition and approval of the director or beginning band. This course is open to students who have previous band experience. This course will focus on instrument care, embouchure and hand position, all scales through three sharps and three flats, key signatures, time signatures, basic terminology and dynamic breathe control, articulation, and rhythm and ear training. Students enrolled in this course are expected to attend mandatory performance/rehearsals. Marching band may be a part of this course and special clothing may be required for performances. Students are expected to perform in musical competitions, festivals, and assessments.

BAND III FA9234**GRADES 9-12****1 CREDIT**

Prerequisite: Audition and approval of the director or intermediate band. This course is designed to continue the technical and disciplinary skills development necessary for performance of more difficult compositions. Students will study ensemble playing, musical interpretation, and appropriate band literature. Students enrolled in this course are expected to attend mandatory rehearsals/performances. Marching band may be a part of this course and special clothing may be required for performances. Students are expected to perform in musical competitions, festivals, and assessments.

BAND IV FA9244**GRADES 9-12****1 CREDIT**

Prerequisite: Audition and approval of the director or intermediate band. This is the premier concert ensemble at Charles City High School. This ensemble is made up of the most advanced wind and percussion players in the band program. Students explore classic contemporary wind band literature that demands musical maturity. More advanced literature will be studied as well as more advanced techniques, such as minor scales and other modes. This class meets during a specific period but occasionally meets outside of class for rehearsals. This ensemble performs at various assemblies, concerts, and competitions throughout the school year

CAREER & TECHNICAL EDUCATION

COMPUTER SCIENCE COURSES:

PROGRAMMING BE6136S**GRADES 9-12****1 CREDIT**

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.

BUSINESS EDUCATION

BUSINESS MANAGEMENT BE6136S

GRADES 9-12 **1 CREDIT**

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.

COMPUTER INFORMATION SYSTEMS I IT6612Y

GRADES 9-12 **1 CREDIT**

In this course, students apply problem-solving skills to real-life situations through database, spreadsheets, word processing, and presentation software with integrated activities. Various digital input technologies, including speech recognition, are covered. This course prepares students to take the industrial certification exam to become a Microsoft Office Specialist (MOS).

COMPUTER INFORMATION SYSTEMS II IT6613Y

GRADES 10-12 **1 CREDIT**

Prerequisite: Computer Information Systems I. 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. This course prepares students to take the industrial certification exam to become a Microsoft Office Specialist (MOS).

EDUCATION FOR EMPLOYMENT 9078

GRADES 9-12 **1 CREDIT**

This elective prepares students for the workplace with content covering personal qualities and peoples' skills, professional knowledge and skills, self-awareness and self-advocacy skills, and exploring the concept of work. In addition, students explore career opportunities and job acquisition skills.

CAREER INVESTIGATIONS 9070

GRADES 9-12 **1 CREDIT**

Students investigate and demonstrate workplace readiness skills through immersion of professional knowledge and skills, and technology knowledge and skills. Exploration of the 16 career clusters will help students discover pathways of interest and the education and training required to for such careers. Students complete a self-assessment of personal assets, skills, interests, talents, and values to a career. After developing an academic and career plan, students learn and practice the important communication skills required on the job.

MARKETING EDUCATION

MARKETING I MK8120

GRADES 9-12 **1 CREDIT**

In the General Marketing concentration, students learn functions involved in the marketing of goods and services and develop competencies necessary for successful marketing employment including personal selling, advertising, visual merchandising, physical distribution, purchasing, market planning, product/service technology, and marketing mathematics.

MARKETING II MK8130

Prerequisite: Marketing I. In the General Marketing concentration, students gain in-depth knowledge of marketing functions, the supervisory and management responsibilities for those functions, and Virtual Enterprise software. They also learn competencies important for successful supervisory management, employment, and advancement to other management positions.

MILITARY SCIENCE (ARMY JROTC)

ARMY JROTC I MS7913

ARMY JROTC II MS7916

GRADES 9-12

1 CREDIT EACH

Students are introduced to the JROTC curriculum, and basic U.S. citizenship rights and responsibilities are established and reinforced. Students learn leadership, history, communication techniques, disciplined study habits, management skills, first aid, drug abuse prevention, map reading, physical fitness, and workplace readiness skills. Military customs and courtesies, proper uniform wear, and personal appearance guidelines are followed within the leadership lab, drill, and military ceremonies.

ARMY JROTC III MS7918

ARMY JROTC IV MS7919

GRADES 10-12

1 CREDIT EACH

Students continue to develop their leadership skills through working as command and staff leaders. Additional communication skills are developed, including methods of instruction, preparation, and proper conduct of cadet-led classes. Human relations, group dynamics, orienteering, contemporary U. S. issues, and advanced military history studies are also included.

TECHNOLOGY EDUCATION

INVENTIONS & INNOVATIONS TE8464

GRADE 7

SEMESTER

Students make models of significant inventions that have advanced society. After studying these developments, they explore contemporary technological problems facing them, their community, or the world and apply systematic procedures to invent new products or innovations as solutions. They investigate technology in areas of manufacturing, transportation, construction, and energy.

COMPUTER SOLUTIONS TE6609

GRADE 7

SEMESTER

Students are introduced to the world of business using the computer as a problem-solving tool. Emphasis is placed on using basic touch keyboarding skills to complete a variety of projects incorporating word processing, database, presentation, and spreadsheet software. Basic Internet safety and computer maintenance issues are important components of this course.

TECHNOLOGY FOUNDATIONS TE8403

GRADE 8**1 CREDIT**

Students acquire a foundation in technological material, energy, and information and apply processes associated with the technological thinker. Challenged by laboratory activities, students create new ideas and innovations, build systems, and analyze technological products to learn further how and why technology works. They work in groups to build and control systems using engineering design in the development of a technology.

ELECTRONICS TECHNOLOGY TE8416

GRADE 8**1 CREDIT**

Electronic devices are everywhere in modern life and business, and as a result, opportunities abound for any who should master the knowledge and skills required to design, alter, repair, and construct them. This course allows students the opportunity to explore principles of electricity, apply knowledge in mathematics and science, and conduct experiments with electronics. Students solve problems using simple electrical devices and circuits and build electronic projects using DC and AC devices and circuits.

ELECTRONICS TECHNOLOGY II TE8412

GRADE 8**1 CREDIT**

Students work with electronics equipment, instruments, and circuits to build and design devices which require application of theories and laws. Hands-on investigations include the use of resistors, capacitors, and transistors. Students also study integrated circuits used in computers, amplifiers, television, and other equipment.

TECHNOLOGY OF ROBOTIC DESIGN TE8421

GRADE 8**1 CREDIT**

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

OFFICE SPECIALIST IT6740

GRADES 9-12**1 CREDIT**

Students develop skills in areas including keyboarding, word processing, office procedures, and records management. Application takes place in simulated activities in the areas of word processing, spreadsheets, databases, telecommunications, graphic design, and records management.

SPECIAL PROGRAMS *OFF-CAMPUS EDUCATIONAL OPPORTUNITIES*

Charles City Public Schools is a part of various consortiums within our region that provide alternative educational opportunities for our students. Students and parents should refer to their School Counselor for more information regarding the admissions process and course offerings.

Maggie L. Walker Governor's School for Government and International Studies



MISSION STATEMENT

Our mission is to provide comprehensive educational opportunities that advance gifted students' understanding of world cultures and languages. Our diverse and supportive community develops students' character and ability to contribute, collaborate, and lead.

VISION STATEMENT

Maggie L. Walker Governor's School for Government and International Studies (MLWGS) will develop life-long learners who embrace the responsibility of citizenship, the value of ethical leadership, and the richness of diverse cultures.

Course of Study:

Maggie L. Walker Governor's School offers courses in all disciplines. While government and international studies is its theme, the comprehensive program at MLWGS allows a flexible approach for students to understand the growing interconnectedness of the international community. In addition to government and international studies, students' interests in science, mathematics, the arts, international languages, computer technology, or other academic areas may serve as focal points for their understanding of the world.

Curricula are developed and delivered reflecting best practices in gifted education. The following is a sampling of components utilized to serve this purpose:

Core Courses
Advanced Placement Courses
Dual Enrollment University Courses
Individual Research Projects

Student Generated Curricula
Cooperative Learning Experiences
Experiential Learning Experiences
International Travel Opportunities

Interdisciplinary Connections
Service Learning
Mentorships & Seminars



Our Mission

The mission of CodeRVA Regional High School is to prepare a diverse population of students for college and careers in computer science through personalized, integrated, and applied learning.

Appomattox Regional Governor's School for the Arts and Technology



OUR MISSION

The Appomattox Regional Governor's School for the Arts and Technology provides gifted and talented students a differentiated and rigorous education, cultivates a supportive environment that inspires unique artistic and technological visions, promotes cultural tolerance, nurtures community partnerships, and produces active, engaged citizens.

PROGRAMS OF STUDY

Focus Areas

- Dance
- Literary Arts
- Music
- Technology
- Theatre Arts
- Visual Arts

Study Programs

- English
- Health and PE
- Math
- Science
- Social Sciences
- World Languages



Bridging Communities

Regional Career & Technical Center

Governor's STEM Academy

PO Box 232, 7930 New Chipping Lane, New Kent, VA 23124 ~ 804-966-8575
info@bridgingcommunities.k12.va.us

Mission

The mission of the Bridging Communities Regional Career & Technical Center, represented by Charles City, King & Queen, King William, Middlesex, and New Kent Counties, is to provide high school students with academically challenging and specialized technical education skills and training whereby students may earn industry certifications and can follow pathways to the workforce, specialized trade programs, community college, or four-year institutions.

Vision

Juniors and seniors from the five counties will participate in rigorous, workplace-based curriculum that provides access to numerous occupations and creates a link between technical skills and academic skills. All programs will provide skills in career clusters focusing on current and future occupational opportunities with many courses linked to post-secondary dual enrollment arrangements. Instructional content for science, technology, engineering and math (STEM) will be provided in a relevant and rigorous framework. Bridging Communities Regional Career & Technical Center will provide opportunities for adult learners to meet changing expectations in their workplace or prepare for new occupations.

**The Bridging Communities
Governor's STEM Academy**
provides academic and
technical training in career
preparation for Health
Science, Engineering, &
Technology



Programs:

[Pre-Practical Nursing](#)

[Pre-Engineering](#)

[Coding & Advanced Programming](#)