Montgomery County Public Schools High School Program of Studies









2025-2026





Mission

Highest aspiration and purpose of the school; a declaration of the unique identity to which the school aspires, its specific purpose, and the means by which it will achieve its purpose

MCPS is an innovative educational community. We value diversity, and we are committed to equity and inclusion. MCPS empowers learners to realize success in an ever-changing global society through collaboration with communities, families, staff, and students. MCPS provides a safe, engaging learning environment and intentional exposure to positive social, emotional, and academic experiences.

Beliefs

An expression of fundamental values, ethical code, overriding convictions, inviolable principles

- 1. All students can learn in order to pursue their dreams.
- 2. Schools are safe places of joy, wonder, and creativity.
- 3. Every person deserves to be loved, valued, and respected.
- **4.** Kindness is an essential skill of a responsible, productive community member.
- 5. The diversity of our community is one of our greatest strengths.
- 6. All people deserve equitable access to opportunities and resources.
- 7. Every child deserves an advocate.
- 8. Honoring the voices of students and other stakeholders strengthens the school community.
- 9. Open communication and feedback are vital to our growth.
- **10.** Learning and teaching are collective efforts that begin at birth and involve the entire community.
- **11.** Relationship building and high expectations are foundational to student success.



Objectives

3.

An uncompromising commitment to achieve specific, measurable, observable, or demonstrable results that exceed current capability





undaries within which theschool will accompli

Parameters

Boundaries within which theschool will accomplish its mission; self-imposed limitations

Equity Statement

MCPS will intentionally address the needs of all individuals so that each person can achieve their maximum potential.

Principles of Equity

Impartiality

Ensure equal treatment of all, regardless of race, ethnicity, socioeconomic status, culture, gender, gender identity, and other protected group status.

Opportunity

Eliminate barriers and obstacles by providing needed resources through planned, systemic strategies that focus on the core of teaching and learning.

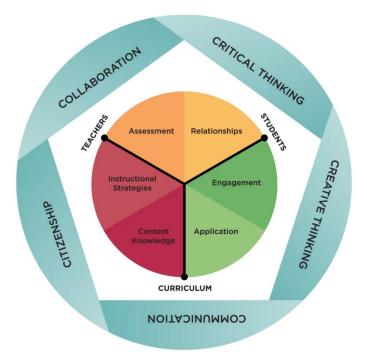
Access

Ensure that all individuals have the same rigorous educational standards, quality programs, and tiered supports.

Sense of Belonging

Promote social and emotional well-being and ensure individuals have the ability to self-advocate and influence decisions affecting them.





Montgomery County Public Schools accomplishes our mission and vision through the implementation of the Model for Effective Instruction.

MONTGOMERY COUNTY PUBLIC SCHOOLS

750 Imperial Street, Christiansburg, VA 24073 | Phone: (540) 382-5100 | Fax: (540) 381-6127

Bernard F. Bragen, Jr., Ed.D., Division Superintendent Barbara M. Wickham, Ed.D., Assistant Superintendent for Curriculum & Instruction TBA, Director of Secondary Education Anthony Walker, Ed.D, Director of Special Education

Auburn High School

1650 Auburn School Drive Riner, VA 24149 Phone: (540) 382-5160 **Guidance:** (540) 382-5164 **Principal:** Mr. David Hurd

Christiansburg High School

100 Independence Boulevard Christiansburg, VA 24073 Phone: (540) 382-5178 **Guidance:** (540) 382-5186 **Principal:** Mr. Shane Guynn

Blacksburg High School

3401 Bruin Lane Blacksburg, VA 24060 (540) 951-5706 **Guidance:** (540) 951-5715 **Principal:** Mr. Chris Stewart

Eastern Montgomery High School

4695 Crozier Road Elliston, VA 24087 Phone: (540) 268-3010 **Guidance:** (540) 268-3011 **Principal:** Mr. Todd Lewis

MCPS Curriculum Staff

English/Language Arts/ Reading/World Languages	TBA, Curriculum Administrator	
ESL	Emily Altizer, Curriculum Administrator Bonnie Frazier, Lead Teacher	
Mathematics	Jennifer Wall, Curriculum Administrator	
Science	Tony Deibler, Curriculum Administrator	
History/Social Sciences	David Dickinson, Curriculum Administrator	
Career & Technical Education and Business Partnerships	TBA, Curriculum Administrator	
Governor's STEM Academy	Veronica Spradlin, Lead Teacher	
World Languages	Ashley Koontz, Lead Teacher	
Gifted Programs	Helen Fotinos, Administrator	
Health & Physical Education	Kelley Sutphin, Lead Teacher	
Visual Arts	Carrie Lyons, Lead Teacher	
Secondary Instrumental Music	Harry Farmer, Lead Teacher	
Secondary Vocal Music	Kaitlyn Seidemann, Lead Teacher	
Secondary Theatre Arts	Makala Witten, Lead Teacher	
Project AIM	Elizabeth Nester, Department Lead	
Secondary Library Programs	Kelly Passek, PhD, Lead Librarian	

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COURSE SELECTION INFORMATION

MCPS is committed to assisting all students in developing their abilities and interests. The MCPS High School Program of Studies is comprehensive and offers preparation for students who plan to continue their formal education beyond high school and for those who plan to enter directly into the workplace or the military. Among the most important decisions students make are those related to the programs they will pursue. These decisions should be made after careful assessment of students' capabilities and interests and with the assistance of parents, school counselors, and teachers. By focusing on our mission that every student will graduate career and college ready and become a productive, responsible citizen, MCPS is committed to carefully planning for the future of each student.

The titles and descriptions of courses required for high school graduation are listed by grade level. Other course selections focus on "Course to Career" connections and are organized by career path/career clusters. **Course maps for** how students can pursue completer programs in certain specific careers through a combination of MCPS/NRCC coursework while in high school (including extension beyond high school graduation) are also provided.

The MCPS Program of Studies includes a complete listing of courses offered at MCPS High Schools. Below each course description, specific school information is provided. To the extent possible, all MCPS high school students will have equal access to course opportunities division-wide. Students who are interested in pursuing courses offered at a high school other than their own should discuss options for taking these courses with their school counselor.

All courses are available to students who have met the stated prerequisites. Occasionally, a particular course will not be available due to an insufficient number of students desiring the course or a scheduling conflict. If a student selects one or more of these courses, an alternate class must be chosen. While every effort is made to resolve conflicts, in certain situations, students may need to consider alternative choices. The school will attempt to contact students and/or parents when this becomes necessary.

School counselors are available to assist students in academic planning, and goal setting as well as provide support through their college/career goals. Each student will start high school with an individualized <u>Academic & Career Plan</u> (<u>ACP</u>). High school counselors meet with each rising 9th grader to review his/her ACP and assist with mapping out future course selections that align with his/her career path. In addition to the annual academic planning and course selection sessions, counselors assist students and parents to address other issues that create challenges to academic success. Each high school counseling program offers workshops for students and parents designed to enhance orientation to academic success, awareness of the college admission process, scholarship and financial aid opportunities, and transitions after high school. Parents are encouraged to participate in the development of the student's program of studies that maps the route to the chosen diploma option and graduation.

Students are encouraged to select rigorous courses that will provide an intellectual challenge and that will better prepare them for future courses and educational and/or career pursuits beyond high school. In considering students' applications for admission, colleges and universities look closely at the number and kind of advanced courses students have taken. The academic rigor of courses taken in high school can be a significant factor in a student being accepted by the college of his/her choice.

MCPS COURSES by CAREER CLUSTER

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The <u>career cluster charts</u> found in the Appendix (pages 212-228) provide students with an idea of the different types of jobs and careers that are available to them. Montgomery County courses are listed in the column entitled high school courses to consider. If you are interested in a particular career cluster, please consider these recommendations when signing up for classes.

Career Clusters are groupings of occupations and industries that are used for organizing curriculum design and career counseling and guidance. The 16 Career Clusters are as follows:

- <u>Agriculture, Food and Natural Resources</u>
- <u>Architecture and Construction</u>
- <u>Arts, Audio/Video Technology and Communications</u>

- Business Management and Administration
- Education and Training
- <u>Finance</u>
- <u>Government and Public Administration</u>
- Health Science
- Hospitality and Tourism
- Human Services
- Information Technology
- Law, Public Safety, Corrections and Security
- Manufacturing
- Marketing
- <u>Science, Technology, Engineering and Mathematics</u>
- <u>Transportation, Distribution and Logistics</u>

DUAL ENROLLMENT COURSES

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MCPS offers high school students the opportunity to earn college credits in both academic coursework and in career and technical education by taking courses that are dual enrolled with New River Community College (NRCC). Upon successful completion of a dual-enrolled (DE) course, students receive both college credit and high school credit towards graduation.

DE courses are offered for course credit with the same departmental designations, numbers, titles, and credits as those listed in the NRCC Course Catalog. All DE courses are equivalent to the NRCC courses and contain the same components of the syllabi, level and rigor of content, assessment and evaluation of student learning outcomes and instructional effectiveness. DE courses are taught by MCPS high school faculty who have met the qualifications to teach at the college level. MCPS teachers who teach DE courses are considered NRCC adjunct faculty. NRCC maintains institutional control of all dual enrollment courses to ensure curricular integrity of those courses.

By taking dual enrollment courses, students gain experience with the rigor of college work and college faculty expectations while taking these courses during regular school hours at their high school. They also may accelerate a student's college career and save money by allowing them to enter college with credits applicable to their degree program in their post-graduate plans. A minimum grade of "C" is required for a dual enrollment course to transfer to a college or university. NRCC CTE dual enrolled course credits earned are applicable to specific curricula and are intended to prepare students for employment in those areas. While some of these courses may be accepted for transfer, no unified policy exists on the transfer of these courses.

All transfer credits are at the discretion of the receiving college or university. The dual enrollment course transfers to the college or university based on the equivalency defined for the partnering community college by the four-year institution. Transferability of courses can be confirmed by visiting the <u>Transfer Virginia Portal</u> and websites of the four-year schools. The Transfer Virginia Portal provides transparent and equitable information related to transfer, including course equivalencies, applicability of courses to degree programs, comparison of programs, transfer steps and resources, and college and career exploration.

DUAL ENROLLMENT ELIGIBILITY CRITERIA

Dual enrollment (DE) courses are intended for high school juniors and seniors who have demonstrated their readiness to accept the challenge of taking college courses while still in high school. Because the enrollment of freshmen and sophomores is designated exceptional, each freshman or sophomore student will be considered on a case-by-case basis and will require formal approval by the college president as well as the appropriate academic division dean. Other conditions, as deemed by the president, may also apply. The specific criteria and steps required for approval, along with the <u>Request for Special Circumstance Dual Enrollment for Montgomery County Public Schools form</u> may be found in the appendix of this document.

In order to enroll in a DE course, high school students must have the permission of their parent/guardian to participate, be recommended by their high school principal, and meet all course prerequisites. Students must also <u>meet admission</u> <u>and course placement requirements established by NRCC</u>. Requirements for admission include the completion of an application for admission to NRCC (students will be required to enroll as an NRCC student), transcripts, as well as

satisfaction of eligibility and placement criteria. NRCC may make exceptions to their policies regarding student eligibility on a case-by-case basis, if the high school principal and NRCC president approve and if such exceptions are in accordance with VCCS policy. NRCC reserves the right to advise students, parents, and MCPS that a student does not have sufficient skills or abilities to continue in any DE courses selected. Qualifying students will register for DE courses through their high school. All DE students must be registered by the end of the drop/add period established by NRCC for each course.

DUAL ENROLLMENT PROGRAMS



While taking individual Dual Enrollment courses provides students with an opportunity to earn credits that may meet general education and/or degree requirements at a college or university, students may choose to complete a Passport or Uniform Certificate of General Studies (UCGS) program. Students also have an opportunity to earn an Associate Degree while still in high school. *Students interested in pursuing any of these three programs listed below are strongly advised seek guidance from their school counselor and/or school-based NRCC Career Coach.*

- **Passport** Successful completion of the Passport gives students confidence that 16 credits of coursework will transfer to Virginia's public and participating private institutions and satisfy 16 credits of general education requirements. The course bundle must be completed by selecting one course from the <u>Passport roster</u> in the following areas: written communications, humanities/fine arts, social/behavioral science, natural science, mathematics, and history. The key to the Passport is a balanced portfolio demonstrating your educational experience. All grades must be C or higher to transfer.
 - See the NRCC Career Coach located at your high school for help determining which DE courses offered at your school will apply to the Passport program.
- Uniform Certificate of General Studies (UCGS) The UCGS program expands on the Passport to satisfy 31 credits
 of college-level general education requirements. Like the Passport, students can complete this 10-course bundle
 by selecting courses from the UCGS roster in written communications (2 courses), humanities/fine arts/literature
 (2 courses), history (1 course), social/behavioral science (1 course), natural science (1 course), and mathematics
 (1 course). Two additional courses are completed from the specialized general education block. All grades must
 be C or higher to transfer.
 - See the NRCC Career Coach located at your high school for help determining which DE courses offered at your school will apply to the UCGS program.
- Associate Degree Earning an associate degree while in high school may allow students to complete a
 baccalaureate degree in less time than the traditional four-year degree can take. It may also offer opportunities
 for students to select a double major or it can free up time for students to explore study abroad or similar
 academic experiences. With a solid plan in place, students can save time and money. The key is to complete a
 transfer associate degree that aligns with future academic plans so that coursework will apply to requirements
 for a bachelor's degree. Consultation with both the two-year college and the receiving four-year colleges will
 support your creation of a successful plan by mapping out courses needed to complete a degree.
 - MCPS does not offer all courses required to fulfill an Associate Degree through Dual Enrollment courses. Students that intend to pursue this option will be required to take external courses either oncampus or online at NRCC. Prior to enrolling a student in an external course, parents should review <u>MCPS Policy 7-2.4</u> and discuss the requirements and expectations with the principal and/or school counselor.
 - See <u>NRCC's College Catalog</u> for a list of all transfer degree options.

Please reference the <u>Transfer Virginia Dual Enrollment Student Guide</u> for more information about the differences between Dual Enrollment and AP, student practices that promote success, terminology in exploring college options, and additional resources.

MCPS DUAL ENROLLMENT POLICIES

Students in DE courses may be required to take a final exam regardless of any MCPS policies related to final exams. The requirement for students to take SOL tests related to DE courses still applies. Final grades in all DE courses are "weighted" in the calculation of a student's high school GPA. At the conclusion of each college academic term, DE students will receive a college grade for each course in which he/she was registered, and such grade will become part of

the student's permanent college record. This record will be maintained by NRCC, and transcripts will be sent to colleges/universities upon a student's request.

At the present time, DE courses are made available to MCPS students at no cost to students when they are taught by MCPS teachers at an MCPS high school. Students who choose to take NRCC courses not offered by MCPS must pay tuition to the college.

DE course offerings vary at the different MCPS high schools (see <u>pages 196-199</u> for a complete listing of DE courses offered by MCPS). Students interested in taking DE courses are encouraged to meet with the counselor at their high school to discuss dual enrollment options. As with all courses, DE course offerings are based on sufficient student interest/demand for the course and the availability of qualified staff. DE course offerings are also conditional upon adequate student registration by established deadlines and adequate enrollment as determined by NRCC and/or MCPS.

ADVANCED PLACEMENT COURSES

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The Advanced Placement Program[®] is designed for academically talented students who are not only college bound, but who are also motivated and capable of handling a college-level course while still in high school. Students should expect a rigorous and fast-paced academic program. Therefore, students need to be able to meet the demanding requirements in and out of class. Upon completion of the course, students are expected to take the Advanced Placement exam, which is given each year in May. Enrollment in the course does not mandate taking the tests; however, students should realize that the instruction is designed with AP tests in mind. Students who earn a qualifying score on an AP Exam are typically eligible to receive college credit and/or placement into advanced courses in college. Financial assistance is available to low-income students who wish to take the AP exam.

Each college or university make its own determination regarding what AP examination grades it will accept for credit. Although there is no guarantee that a college or university will award credit for AP courses, the majority of them will award students credit in the subject matter tested when a grade of 4 or better is achieved. In some cases, no credit is given, but the student begins the program of study at an advanced level. Students are strongly urged to acquaint themselves with the requirements of the college or university to which they intend to apply and to consult with an advisor at those institutions in order to determine what AP scores are considered accepted for credit.

AP course offerings vary at the different MCPS high schools. Students interested in taking AP courses are encouraged to meet with the counselor at their high school to discuss AP options. As with all courses, AP course offerings are based on sufficient student interest/demand for the course and the availability of qualified staff.

SUMMER, VIRTUAL, & EXTERNAL COURSES

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MCPS high school students may elect to take Virtual Virginia, internal online courses, and/or external courses during or outside of regular school hours, and/or during the summer months. Prior to enrolling a student in one of these courses, parents should review MCPS Policy 7-2.4 and discuss the requirements and expectations with the principal and/or school counselor. It is especially important to note the limitations on external courses and the limitations on the total number of high school credits that can be earned annually. All coursework taken in the summer is considered to be "external". If a student wishes to take courses for high school credit in the summer following 8th grade, then prior approval from the high school they will attend is required. Courses taken without prior approval will not be recognized by MCPS. Further information is provided on pages 202-205.

MCPS VIRTUAL SCHOOL PROGRAM

Families who prefer to have their children educated in a remote learning environment for grades K-12 may enroll their children in the MCPS Virtual School Program. Students who participate in the MCPS Virtual School Program must enroll as a full-time MCPS student. These students will participate in the MCPS Virtual School program by enrolling in the Virtual Virginia Full-Time Program through the school within the attendance area in which the family resides.

Virtual Virginia courses are taught by Virtual Virginia staff, and student progress is monitored by MCPS staff. Virtual Virginia will report a course average (percentage grade), and the local school will convert the average to a letter grade based on the MCPS grading scale. The school is responsible for reporting course grades on school report cards in accordance with School Board policy. Students who are enroll in the MCPS Virtual School Program and meet all graduation requirements will receive a diploma from the MCPS high school in which they are enrolled.

Middle and high school students who are entering Montgomery County Public Schools from non-accredited schools or from homeschooling to enroll in the MCPS Virtual School Program may take courses appropriate to the student's age and grade level. High school students who are entering Montgomery County Public Schools from non-accredited schools or from home schooling may enroll in the MCPS Virtual School Program on a full-time basis with the intent to receive a diploma from the high school within the attendance area in which the family resides. These students must meet all requirements to be awarded credits toward graduation for courses completed in a non-accredited school or in home schooling in accordance with the process established in Policy 7-2.4 (Assignment of Students to Classes/Alternative Credit). Course grades and credits will be recorded and included in a student's GPA calculation according to Policy 7-2.4. Grade level placements will be determined by the number of credits earned in accordance with established Montgomery County School Board policy. Graduation requirements for these students will be the same as those for all Montgomery County students as stipulate by established Montgomery County School Board policy. Middle school students who are entering Montgomery County Public Schools from non-accredited schools or from home schooling to enroll in the MCPS Virtual School Program must meet the established promotion/placement criteria identified by Montgomery County School Board policy. Students will be placed in courses appropriate to the student's age and grade level. Any of these middle school students who have completed a high school credit course in a non-accredited school or in home schooling prior to enrolling in MCPS must follow the same process for awarding credits toward graduation established in Policy 7-2.4 for high school students (Assignment of Students to Classes/Alternative Credit).

Students enrolled in the MCPS Virtual School Program will be permitted to participate in extracurricular activities at the school within the attendance area in which the family resides. Students who meet all VHSL eligibility requirements will be allowed to participate in athletics at the school. All MCPS School Board policies shall apply to students enrolled in the MCPS Virtual School Program.



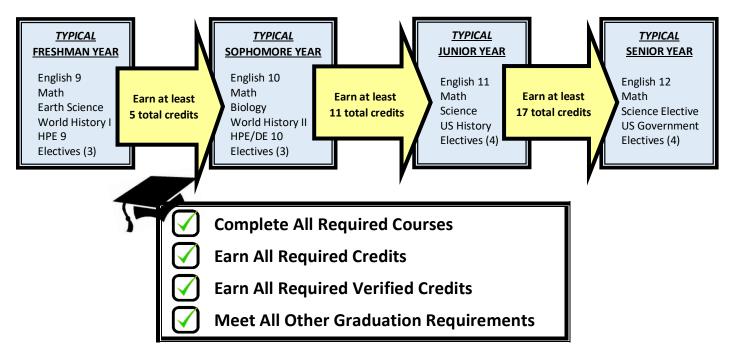
KEY TO ICONS

The following icons appear beside certain courses throughout the Program of Studies:

AP	Advanced Placement Program [®]			
	Dual Enrollment			
PROJECT LEAD THE WAY	Project Lead The Way			
ASS NATEF	National Automotive Technicians Education Foundation			
R ·I·T	Rochester Institute of Technology			
Constant as the second se	MCPS Governor's STEM Academy			
Werther County Product of the Certified Workshop	Workplace Readiness			
TRANSFER VIRGINIA	DE courses noted as a "Passport Transfer Course" Click Here for More Information			

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GRADUATION REQUIREMENTS



Definitions

For both a Standard Diploma and an Advanced Studies Diploma, the following definitions apply:

A "standard unit of credit" or "standard credit" is a credit awarded for a course in which the student successfully completes 140 clock hours of instruction and the requirements of the course. Local school boards may develop alternatives to, or waive, the requirement for 140 clock hours of instruction as provided for in the Virginia Standards of Accreditation and in accordance with board guidelines.

A "verified unit of credit" or "verified credit" is a credit awarded for a course in which a student earns a standard unit of credit and completes one of the following:

- Achieves a passing score on a corresponding end-of-course SOL test. In accordance with the provisions of the Standards of Quality, students may earn a standard and verified unit of credit for any elective course in which the core academic Standards of Learning course content has been integrated and the student passes the related endof-course SOL test. Such course and test combinations must be approved by the board. Upon waiver of the 140clock-hour requirement according to board guidelines, qualified students who have received a standard unit of credit shall be permitted to sit for the relevant SOL test to earn a verified credit without having to meet the 140clock-hour requirement.
- 2. Achieves a passing score on approved additional or substitute tests as a part of the Virginia Assessment Program.
- 3. Meets the criteria for the receipt of a **locally awarded verified credit** when the student has not passed a corresponding SOL test.
 - Students who do not pass SOL tests in English, mathematics, laboratory science, or history and social science may receive locally awarded verified credits from the local school board in accordance with criteria established in guidelines adopted by the board. No more than one locally awarded verified credit may be used to satisfy graduation requirements, except as provided for students with disabilities seeking a standard diploma.

- 4. Meets the criteria for the receipt of a verified credit in **English (writing)** by demonstrating mastery of the content of the associated course on an **authentic performance assessment** that complies with guidelines adopted by the board. Such students shall not also be required to take the corresponding SOL test in English (writing).
- 5. The board may from time to time approve additional tests for the purpose of awarding verified credit. Such additional tests, which enable students to earn verified units of credit, must meet established criteria.

Diploma Types

- Both the **Standard Diploma** and the **Advanced Studies Diploma** provide multiple paths toward college, career, and citizenship readiness for students to follow in the later years of high school. Each such pathway provides meaningful and rigorous opportunities tied to instruction to achieve workplace and citizenship skills through experiences such as internships, externships, credentialing, and blended learning, which may be offered for credit toward high school graduation.
- In accordance with the Profile of a Virginia Graduate, the instructional program leading to a **Standard Diploma** or **Advanced Studies Diploma** ensures that students (i) attain the knowledge, skills, competencies, and experiences necessary to be successful in the evolving global economy whether immediately entering the world of work or pursuing a postsecondary education and (ii) acquire and be able to demonstrate foundational skills in critical thinking, creative thinking, collaboration, communication, and citizenship.

Discipline Area	Standard Units of Credit Required	Verified Credits Required
English (reading and writing)	4	2
Mathematics	3	1
Laboratory Science	3	1
History and Social Science	3	1
Health and Physical Education	2	
World Language, Fine Arts or Career and Technical Education	2	
Economics and Personal Finance	1	
Electives	4	
Total	22	5

Standard Diploma Credit Requirements

Specifications

- Mathematics: Courses completed to satisfy this requirement shall include at least <u>two</u> different course selections from among: Algebra I, Geometry, Algebra Functions, and Data Analysis (AFDA), Algebra II, or other mathematics courses approved by the board to satisfy this requirement.
 - A computer science course credit earned by students may be considered a mathematics course credit.
- Laboratory Science: Courses completed to satisfy this requirement shall include course selection from at least <u>two</u> different science disciplines: earth sciences, biology, chemistry, or physics.
 - A computer science course credit earned by students may be considered a science course credit.
 - A laboratory science verified credit may be awarded to students who complete a career and technical education program sequence <u>and</u>
 - (i) pass <u>two (2)</u> examinations or occupational competency assessments in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, trade, or professional association;

- (ii) acquire <u>two (2)</u> professional licenses in a career and technical education field from the Commonwealth of Virginia; or
- (iii) pass <u>one (1)</u> examination or competency assessment from clause (i) <u>and</u> acquire <u>one (1)</u> license from clause (ii).

The examination or occupational competency assessment must be approved by the board as an additional test to verify student achievement.

- **History and Social Science:** Courses completed to satisfy this requirement shall include Virginia and U.S. History, Virginia and U.S. Government, and <u>one (1)</u> course in either world history or geography or both.
- World Language, Fine Arts or Career and Technical Education: Credits earned for this requirement shall include one (1) credit in fine or performing arts or career and technical education.
 - A computer science course credit earned by students may be considered a career and technical course credit.
 - A fine arts or CTE course used to satisfy the World Language/Fine Arts/CTE graduation requirement for the Standard Diploma may be used to partially satisfy the sequential elective requirement (i.e. this course is permitted to count as one of the two required sequential elective course credits while also being used as one of the required Fine Arts/CTE course credits for the Standard Diploma.)
- Electives: Courses to satisfy this requirement shall include at least two (2) sequential electives.
 - A two-credit course may be used to fulfill this graduation requirement as long as the course is not specifically required for graduation. The content of the two-credit course bust build on itself and create a foundation for further education or training of preparation for employment.

Additional Graduation Requirements for Standard Diploma

- Advanced Placement Course, Dual Enrollment Course, Honors Course, or Career and Technical Education Credential: Students shall either
 - i. Complete an Advanced Placement, Dual Enrollment, or honors course, or
 - ii. Complete a high-quality work-based learning experience, as defined by the Board, or
 - iii. Earn a career and technical education credential approved by the board, except when a career and technical education credential in a particular subject area is not readily available or appropriate or does not adequately measure student competency, in which case the student shall receive satisfactory competency-based instruction in the subject area to satisfy the standard diploma requirements. The career and technical education credential, when required, could include the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, ASVAB, or the Virginia workplace readiness assessment.
- Virtual Course: Students shall successfully complete one virtual course, which may be a non-credit-bearing course or a required or elective credit-bearing course that is offered online.
- Training in emergency first aid, cardiopulmonary resuscitation (CPR), and the use of automated external defibrillators (AED): Students shall be trained in emergency first aid, CPR, and the use of AED, including handson practice of the skills necessary to perform cardiopulmonary resuscitation. Students with an IEP or 504 Plan that documents that they cannot successfully complete this training shall be granted a waiver from this graduation requirement.
- **Demonstration of the five Cs:** Students shall acquire and demonstrate foundational skills in critical thinking, creative thinking, collaboration, communication, and citizenship in accordance with the Profile of a Virginia Graduate.



Advanced Studies Diploma Credit Requirements

Discipline Area	Standard Units of Credit Required	Verified Credits Required
English (reading and writing)	4	2
Mathematics	4	1
Laboratory Science	4	1
History and Social Science	4	1
World Language	3	
Health and Physical Education	2	
Fine Arts or Career and Technical Education	1	
Economics and Personal Finance	1	
Electives	3	
Total	26	5

Specifications

- Mathematics: Courses completed to satisfy this requirement shall include at least <u>three</u> different course selections from among: algebra I, geometry, algebra II, or other mathematics courses above the level of algebra II.
 - A computer science course credit earned by students may be considered a mathematics course credit.
- Laboratory Science: Courses completed to satisfy this requirement shall include course selections from at least <u>three (3)</u> different science disciplines from among: earth sciences, biology, chemistry, or physics. The board shall approve additional courses to satisfy this requirement.
 - o A computer science course credit earned by students may be considered a science course credit.
- History and Social Science: Courses completed to satisfy this requirement shall include Virginia and U.S. history, Virginia and U.S. government, and <u>two (2)</u> courses in either world history or geography or both. The board shall approve additional courses to satisfy this requirement.
- World Language: Courses completed to satisfy this requirement shall include three (3) years of one language <u>or</u> two (2) years of two languages.
- Fine Arts or Career and Technical Education: A computer science course credit earned by students may be considered a career and technical credit.
 - A fine arts or CTE course used to satisfy the World Language/Fine Arts/CTE graduation requirement for the Standard Diploma may be used to partially satisfy the sequential elective requirement (i.e. this course is permitted to count as one of the two required sequential elective course credits while also being used as one of the required Fine Arts/CTE course credits for the Advanced Studies Diploma.
- Electives: Courses to satisfy this requirement shall include at least two sequential electives.
 - A two-credit course may be used to fulfill this graduation requirement as long as the course is not specifically required for graduation. The content of the two-credit course bust build on itself and create a foundation for further education or training of preparation for employment.

Additional Graduation Requirements for Advanced Studies Diploma

- Advanced Placement Course, Dual Enrollment Course, Honors Course, or Career and Technical Education Credential: Students shall either
 - i. Complete an Advanced Placement, Dual Enrollment, or honors course, or
 - ii. Complete a high-quality work-based learning experience, as defined by the Board, or
 - iii. Earn a career and technical education credential approved by the board, except when a career and technical education credential in a particular subject area is not readily available or appropriate or does

not adequately measure student competency, in which case the student shall receive satisfactory competency-based instruction in the subject area to satisfy the advanced studies diploma requirements. The career and technical education credential, when required, could include the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, ASVAB, or the Virginia workplace readiness assessment.

- Virtual Course: Students shall successfully complete one virtual course, which may be a non-credit-bearing course or a required or elective credit-bearing course that is offered online.
- Training in emergency first aid, cardiopulmonary resuscitation (CPR), and the use of automated external defibrillators (AED): Students shall be trained in emergency first aid, CPR, and the use of AED, including handson practice of the skills necessary to perform cardiopulmonary resuscitation. Students with an IEP or 504 Plan that documents that they cannot successfully complete this training shall be granted a waiver from this graduation requirement.
- **Demonstration of the five Cs:** Students shall acquire and demonstrate foundational skills in critical thinking, creative thinking, collaboration, communication, and citizenship in accordance with the Profile of a Virginia Graduate.

Standard Diploma Credit Accommodations

Credit accommodations provide alternatives for students with disabilities in earning the standard and verified credits required to graduate with a Standard Diploma. The student's IEP or 504 Plan shall specify any credit accommodations applicable for the student. Such credit accommodations for students with disabilities may include:

- Approval of alternative courses to meet the standard credit requirements
- Modifications to the requirements for locally awarded verified credits
- Approval of additional tests to earn verified credits
- Adjusted cut scores on tests to earn verified credits
- Allowance of work-based learning experiences

Applied Studies Diploma

A student with disabilities who completes the requirements of the student's IEP and does not meet the requirements for other diplomas shall be awarded an 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 an Advanced Studies Diploma at any time during high school. Such students shall not be excluded from courses or tests required to earn these diplomas.

Certificates of Program Completion

Students who complete prescribed programs of studies defined by the local school board but do not qualify for a Standard Diploma, an Advanced Studies Diploma, or an Applied Studies Diploma shall be awarded Certificates of Program Completion.



Awards for Exemplary Student Performance (Diploma Seals)

MCPS provides awards for exemplary student performance per the Regulations Establishing the Standards for Accrediting Public Schools in Virginia. Students who demonstrate academic excellence and outstanding achievement may be eligible for one or more of the following diploma seals:

Virginia Diploma Seals	Criteria
The 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 shall earn the student at least nine transferable college credits in Advanced Placement (AP), International Baccalaureate (IB), Cambridge, or dual enrollment courses.
The Board of Education Seal	Awarded to students who complete the requirements for a Standard Diploma or an Advanced Studies Diploma with an average grade of "A."
The Board of Education's Career and Technical Education Seal	Awarded to students who earn a Standard Diploma or an Advanced Studies Diploma and complete a prescribed sequence of courses in a career and technical education concentration or specialization that they choose and maintain a "B" or better average in those courses or (i) pass an examination or an occupational competency assessment in a career and technical education concentration or specialization that confers certification or occupational competency credential from a recognized industry, trade, or professional association or (ii) acquire a professional license in that career and technical education field from the Commonwealth of Virginia. The board shall approve all professional licenses and examinations used to satisfy these requirements.
The Board of Education's Science, Technology, Engineering, and Mathematics (STEM) Seal	Awarded to students who earn either a Standard Diploma or an Advanced Studies Diploma and (i) satisfy all Math and Science requirements for the Advanced Studies diploma with a "B" average or better in all course work; and (ii) successfully complete a 50 hour or more work-based learning opportunity in a STEM area; and (iii) satisfy all requirements for a Career and Technical Education concentration (a concentration is a coherent sequence of two or more state-approved courses as identified in the course listing within the <u>CTE Program Area Guide</u>); and (iv) pass one of the following: (a) a Board of Education CTE STEM-H credential examination, or (b) an examination approved by the Board that confers a college-level credit in a STEM field.
The Board of Education's Seal for Excellence in Civics Education	Awarded to students who earn either a Standard Diploma or an Advanced Studies Diploma and (i) complete Virginia and United States history and Virginia and United States government courses with a grade of "B" or higher; (ii) have good attendance and no disciplinary infractions as determined by local school board policies; and (iii) complete 50 hours of voluntary participation in community service or extracurricular activities. Activities that satisfy the requirements of clause (iii) of this subdivision include (a) volunteering for a charitable or religious organization that provides services to the poor, sick, or less fortunate; (b) participating in Boy Scouts, Girl Scouts, or similar youth organizations; (c) participating in JROTC; (d) participating in political campaigns or government internships, or Boys State, Girls State, or Model General Assembly; or (e) participating in school-sponsored extracurricular activities that have a civics focus. Any student who enlists in the United States military prior to graduation shall be deemed to have met this community service requirement.
The Board of Education's Seal of Biliteracy	Awarded to students who earn a Board of Education-approved diploma and (i) pass all required End-of-Course Assessments in English reading and writing at the proficient or higher level; and (ii) be proficient at the intermediate-mid level or higher in one or more languages other than English, as demonstrated through an assessment from a list to be approved by the Superintendent of Public Instruction. More information can be found on the <u>Seal of Biliteracy webpage</u> , including the <u>Evidence of Proficiency document</u> (DOCX), which provides a full list of assessment options for meeting the foreign language proficiency requirement.
The Board of Education's Seal for Excellence in Science and the Environment	Awarded to students who earn either a Standard Diploma or Advanced Studies Diploma and (i) complete at least three different first-level board-approved laboratory science courses and at least one rigorous advanced-level or postsecondary-level laboratory science course, each with a grade of "B" or higher; (ii) complete laboratory or field- science research and present that research in a formal, juried setting; and (iii) complete at least 50 hours of voluntary participation in community service or extracurricular activities that involve the application of science such as environmental monitoring, protection, management, or restoration.

MCPS Diploma Seals	Criteria		
The MCPS Governor's STEM Academy Seal	Designed to promote student achievement and interest in STEM fields that are related to Advanced Manufacturing. Skill sets required for high demand STEM fields include Machining, Welding, Engineering, Robotics, and Information Technology. See <u>pages 207-209</u> for the criteria to earn this diploma seal.		
The MCPS Work Ready Diploma Seal	Designed to promote students gaining work-based learning experiences. The Work Ready Diploma Seal tells employers that a student has the necessary skills needed to be successful in a professional setting. A student who earns the Work Ready Diploma Seal has gained experience in a professional work environment. See page 210 for the criteria to earn this diploma seal.		
MCPS Fine Arts Diploma Seal	Recognizes excellence in, and commitment to, the Fine Arts throughout each of the 4 years of high school. See page 211 for the criteria to earn this diploma seal.		

Other Recognitions of Academic Excellence

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MCPS students are encouraged to reach their maximum potential in academic programs. Individual schools have developed their own methods for recognizing students who do outstanding academic work (e.g. honor rolls). All MCPS graduating seniors may be recognized for outstanding achievement in a variety of areas. These recognitions may include local, state, and national awards and scholarships earned, athletic accomplishments, leadership positions held, outstanding community service, exemplary character, and more. Each school and organization may establish their own set of criteria for awards and scholarships. School-based and community-based recognitions may include additional cords, stoles, sashes, or other adornments on the graduation regalia, as approved by the school principal.

Recognition of Graduating Seniors (Based on GPA)

All MCPS graduating seniors who have attained the same levels of achievement based on established standards of academic excellence will be recognized as follows:

Distinguished Scholar:	GPA of 4.0 and Above
Scholar:	GPA of 3.80 - 3.99
Honor Graduate:	GPA of 3.60 - 3.79

Grade point averages (GPAs) are computed by using final grades for ninth, tenth, eleventh, and twelfth grade classes. Grades earned in high school credit courses taken prior to ninth grade also will be included in the computation of grade point averages. The method used by MCPS to calculate GPA can be found <u>MCPS Policy 6-6.3</u>, Recognition of Student Academic Achievement.

All MCPS high schools will use the same criteria and distinctions to recognize graduates. However, individual high schools will determine how these students are identified (cords, stoles, sashes, medals, robes, etc.) and how a student or students will be selected to speak (selection committee, auditions, peer nominations, etc.) at the graduation ceremony. The designation of Valedictorian and Salutatorian, or other designations (e.g. Top 10, Top 10%) will not be utilized. MCPS also does not calculate a numerical class rank for students (See "Communication with Colleges and Universities" section in <u>MCPS Policy 6-6.3</u> for additional details).

Honor Societies

MCPS high schools have two honor societies that recognize academic achievement by our students -- the National Beta Club and the National Honor Society. Each organization has established academic criteria that must be reached before a student may be eligible to be inducted into the club. Individual high schools may offer membership in other honor societies such as Tri-M Music Honor Society, National Art Honor Society, etc. Membership in these organizations may be signified by cords, stoles, sashes, or other adornments on the graduation regalia, as approved by the school principal.

MONTGOMERY COUNTY PUBLIC SCHOOLS COMMON MATH PATHWAYS

Pathway 1		
Grade Math Course		
7	Algebra I H	
8	Geometry H	
9	Algebra II H	
10	DE/AP Precalculus w/ Trig	
11	Calculus *	
12	2 nd Year Calculus Course * <u>OR</u> Elective Math Course **	

The school determines all Math class placements through Algebra II

	Pathway 2		
Grade Math Course			
8	Algebra I H		
9	Geometry or Geometry H		
10	Algebra II or Algebra II H		
11	Adv Algebra with Trig <u>OR</u> DE/AP Precalculus w/ Trig		
12	Calculus *		

Pathway 3				Pathway 4
Grade Level	Math Course		Grade Level	Math Course
8	Math 8	The school	8	Math 8
9	Algebra I	determines all	9	Algebra I
10	Geometry	Math class placements	10	Geometry
11	Algebra II	through Algebra II	11	AFDA *** / Algebra II
12	Adv Algebra with Trig <u>OR</u> DE/AP Precalculus w/ Trig <u>OR</u> Elective Math Course **		12	Adv Algebra with Trig <u>OR</u> DE/AP Precalculus w/ Trig <u>OR</u> Elective Math Course **

Pathway 5				Pathway 6
Grade Level	Math Course		Grade Level	Math Course
8	Math 8	The school determines all Math class placements through Algebra II	8	Math 8
9	Algebra I		9	Algebra Parts 1 & 2
10	Geometry		10	Geometry or Parts 1 & 2
11	AFDA ***		11	AFDA ***
12	Algebra II <u>OR</u> Elective Math Course **		12	Grade 12 Capstone Math <u>OR</u> Elective Math Course **

Calculus DE Applied Calculus I & DE Applied Calculus II DE/AP Calculus I (AB) & DE/AP Calculus II (BC)
AP Computer Science Principles AP Computer Science A Probability & Statistics Data Science AP Statistics Grade 12 Math Capstone

• Taken immediately after Algebra I (if the Algebra I SOL test is failed)

GUIDE TO 11th & 12th GRADE ENGLISH COURSES IN MCPS

COURSE NAME	MCPS COURSE	COURSE DESCRIPTION	NOTES
English 11	11500	 Addresses the Virginia Standards of Learning for English 11 	
AP English 11: <u>Language</u> & Composition	1196A	 Covers all topics from the AP Language & Composition course Students will be prepared for the AP exam Addresses the Virginia Standards of Learning for English 11 	Students can earn ENG 111 credit with an AP score of 3 or higher on the English <u>Language</u> and Composition AP exam Students can earn ENG 111 & ENG 112 credit with an AP score of 4 or higher on the English <u>Language</u> and Composition AP exam
DE/AP English 11: <u>Language</u> & Composition	DE1196A	 Students will receive college credit from 	ENG 111 & ENG 112 are Passport Transfer courses ENG 112 is a prerequisite for all 200- level literature courses.

If a student does not have a 4 or 5 on the AP English 11 exam or earned credit for **ENG 112** to transfer to a four-year college/university, that student may need to take **ENG 112** or the equivalent once they graduate high school and enter college.

COURSE NAME	MCPS COURSE	COURSE DESCRIPTION	NOTES
English 12	11600	 Addresses the Virginia Standards of Learning for English 12 	
AP English 12: <u>Literature</u> & Composition	1195A	 Covers all topics from the AP Literature & Composition course Students will be prepared for the AP exam Addresses the Virginia Standards of Learning for English 12 	Students can earn ENG 112 credit with an AP score of 4 or higher on the English <u>Literature</u> and Composition AP exam.
DE/AP English 12: <u>Literature</u> & Composition	DE1195A	 Aligned with NRCC's ENG 245 & ENG 225 Covers all topics from the AP <u>Literature</u> & Composition course Students will receive college credit from NRCC for ENG 245 & ENG 225 and be prepared for the AP exam Addresses the Virginia Standards of Learning for English 12 	 ENG 112 is a prerequisite for all 200-level literature courses. ENG 112 may be earned by: Taking DE English 11 <u>OR</u> Taking AP English 11 and earning a score of 4 or higher on the AP Exam ENG 245 & ENG 225 are Passport Transfer courses.
DE English 12: College Composition	DE1600B	 Aligned with NRCC's ENG 111 & ENG 112 (and includes SDV 100) Students will receive college credit from NRCC for ENG 111 & ENG 112 (and SDV 100) Addresses the Virginia Standards of Learning for English 12 	This course is for 12th grade students who have <u>not</u> taken DE English 11.

MONTGOMERY COUNTY PUBLIC SCHOOLS GUIDE TO HIGH SCHOOL SCIENCE COURSES IN MCPS

Laboratory Science Courses are required for both the Standard Diploma and the Advanced Studies Diploma. Specific requirements are as follows:

Standard Diploma: Students must earn <u>3 credits in Laboratory Sciences</u> that includes course selection from at least <u>2 different science disciplines</u>.

Advanced Studies Diploma: Students must earn <u>4 credits in Laboratory Sciences</u> that includes course selections from at least <u>3 different science disciplines</u>.

Biology

Science Disciplines:

Earth Sciences

Chemistry Physics

Students must pass ONE science end-of-course SOL test to earn a verified credit in Science, as required for <u>both diploma types</u>.

COURSE NAME	MCPS COURSE	WHEN TO TAKE	NOTES
Earth Science	42100	This is the science course taken by MCPS students in 8 th grade <u>or</u> 9 th grade	 Students will earn a high school credit for passing this course. All students will take the end-of-course SOL test for Earth Science at the completion of this course.
Biology or Biology Honors	43100 4310H	This is the science course taken by MCPS students in 9 th grade <u>or</u> 10 th grade *	All students will take the end-of-course SOL test for Biology at the completion of this course to meet federal requirements.
 All students must choose a <u>3rd Science</u> Students pursuing an Advanced Studi Students must meet course prerequisition 	es Diploma r	nust choose a <u>4th Scie</u>	nce in 12 th Grade
* Environmental Science	42700	or as an elective scien	aken in 9th grade prior to taking Biology ice in any grade. It may be used to action requirement for an Earth discipline.
Astronomy	42600		·
Meteorology	42200	These courses are "Ea	arth Science II" courses
Oceanography	42500		
AP Environmental Science	4270A	 Covers all topics from Students will be prepared 	m the AP Environmental Science course. bared for the AP exam
Anatomy/Physiology Bioethics	43300 43202	These courses are "Bi	ology II" courses
Botany/Zoology Ecology	43200 43400		
AP Biology	4370A	Students will be prep	m the AP Biology course pared for the AP exam
DE/AP Biology	DE4700A	Students receive 8 c	s General Biology I & II college credits from NRCC (BIO 101/102) m the AP Biology course pared for the AP exam
DE Biotechnology	DE43201	5	s Biotechnology Concepts a college credits from NRCC for BIO

DE Human Anatomy / Physiology	DE4330	 Aligned with NRCC's Human Anatomy & Physiology I & II Students will receive 8 college credits from NRCC for BIO 141 & 142
Chemistry I or Chemistry I H	44100 4410H	
Chemistry II	44200	
AP Chemistry	4470A	Covers all topics from the AP Chemistry courseStudents will be prepared for the AP exam
DE/AP Chemistry	DE4470A	 Aligned with NRCC's General Chemistry I & II Covers all topics from the AP Chemistry course Students will receive 8 college credits from NRCC for CHM 111 & 112 and be prepared for the AP exam
Physics I	45100	
Principles of Technology I and Principles of Technology II / Applied Physics	98110 98120	Students who complete both of these courses in the sequence will satisfy 1 lab science credit (Physics discipline) and 1 CTE elective credit. (98110 and 98120 are also a CTE completer sequence.)
AP Physics	4571A	 Covers all topics from the AP Physics course Students will be prepared for the AP exam
DE/AP Physics	DE4571A	 Aligned with NRCC's General College Physics I & II Covers all topics from the AP Physics course Students will receive 8 college credits from NRCC for PHY 201 & 202 and be prepared for the AP exam
AP Computer Science A	3185A	 This course can be used as a science credit but may NOT be used to meet the <i>discipline</i> requirements for standard and advanced studies diplomas.
External Opportunities	4703V DE4701V DE4702V	 See the MCPS High School Program of Studies for information reading the following courses: Virginia Space Coast Scholars (VSCS) VIRTUAL Virginia Aerospace Science & Technology Scholars Program (VASTS) VIRTUAL Virginia Earth System Science Scholars Program (VESS) VIRTUAL

MONTGOMERY COUNTY PUBLIC SCHOOLS GUIDE TO HIGH SCHOOL HISTORY & SOCIAL SCIENCE COURSES IN MCPS

History & Social Science Courses are required for both the Standard Diploma and the Advanced Studies Diploma. Specific requirements are as follows:

Standard Diploma: Students must earn <u>3 credits in</u> **History & Social Sciences** that includes Virginia and U.S. History, Virginia and U.S. Government, and <u>ONE (1)</u> course in either World History or Geography or both.

Advanced Studies Diploma: Students must earn <u>4 credits in</u> History & Social Sciences that includes Virginia and U.S. History, Virginia and U.S. Government, and <u>TWO (2)</u> courses in either World History or Geography or both.

COURSE NAME	MCPS COURSE	WHEN TO TAKE	NOTES
World History & Geography I or World History & Geography I Honors	22150 2215H	This is the History & Social Sciences course taken by all MCPS students in 9th grade	All students will take the end-of-course SOL test for World History & Geography to 1500 AD at the completion of this course.*
Students pursuing the Advanced Studies Diploma will select one of the following courses to meet diploma requirements: • World History & Geography II • AP European History • AP World History: Modern • DE/AP Human Geography	22160 2399A 23801A DE2212A	These are the History & Social Sciences courses from which MCPS students must select in 10th grade if they are pursuing an Advanced Studies Diploma	Only students who did NOT PASS the end-of-course performance assessments (PA) for World History & Geography to 1500 AD will take the end-of-course PA for World History & Geography to 1500 to present at the completion of any one of these courses.
 Students will select one of the following courses to meet diploma requirements: Virginia & US History AP US History DE/AP US History 	23600 2319A DE2319A	These are the History & Social Sciences courses from which all MCPS students must select in 11th grade	Only students who did NOT PASS an end-of-course SOL test in a World History & Geography course will take the end-of-course SOL test for Virginia & US History at the completion of any one of these courses.
Students in 11 th Grade also may choose DE/AP Human Geography as an e			
 Students will select one of the following courses to meet diploma requirements: Virginia & US Government AP Government & Politics: US DE/AP Government & Politics: US 	24400 2445A DE245A	These are the History & Social Sciences courses from which all MCPS students must select in 12th grade	There is no end-of-course SOL test in Virginia & US Government
* All students in World History I will complete a inclusion in their course portfolio that will be evalu social sciences. Determination of a verified credit equal consideration of the students' performance assessments. Students who did not earn a ver performance-based assessments in World History Students in 12th Grade also may choose	iated, along w will be made on the standa ified credit in y II or VA/US	vith other assignmen by averaging the (3) ards NOT targeted in n World History I wi History to earn a Ve	ts, to award a Verified Credit in history & scored performance assessments, with the performance Il be given the opportunity to complete rified Credit in history & social sciences.

Students must earn ONE verified credit in History & Social Sciences,* as required for both diploma types.

Students in 12th Grade also may choose to take **AP European History, AP World History: Modern, or DE/AP Human Geography** as an elective *in addition to* one of US Government courses above.

GUIDE TO 11th & 12th GRADE HISTORY & SOCIAL SCIENCE COURSES IN MCPS

COURSE NAME	MCPS COURSE	COURSE DESCRIPTION	NOTES
Virginia & US History	23600	 Addresses the Virginia Standards of Learning for Virginia & US History 	
AP US History	2319A	 Covers all topics from the AP US History course Students will be prepared for the AP exam Addresses the Virginia Standards of Learning for Virginia & US History 	Students can earn HIS 121 & HIS 122 credit with an AP score of 3 or higher on the US History AP exam
DE/AP US History	DE2319A	 Aligned with NRCC's US History to 1877 and US History Since 1865 Covers all topics from the AP US History course Students will receive college credit from NRCC for HIS 121 & HIS 122 and will be prepared for the AP exam Addresses the Virginia Standards of Learning for Virginia & US History 	HIS 121 & HIS 122 are Passport Transfer courses
COURSE NAME	MCPS COURSE	COURSE DESCRIPTION	NOTES
Virginia & US Government	24400	 Addresses the Virginia Standards of Learning for Virginia & US Government 	
AP Government & Politics: US	2445A	 Covers all topics from the AP Government & Politics: US course Students will be prepared for the AP exam Addresses the Virginia Standards of Learning for Virginia & US Government 	Students can earn PLS 135 credit with an AP score of 3 or higher on the Government & Politics: US AP exam
DE/AP Government & Politics: US	DE245A	 Aligned with NRCC's NRCC's US Government & Politics and State & Local Politics Covers all topics from the AP Government & Politics: US course Students will receive college credit from NRCC for PLS 135 & PLS 136 and will be prepared for the AP exam Addresses the Virginia Standards of Learning for Virginia & US 	PLS 135 & 136 are Passport Transfer courses

HISTORY & SOCIAL SCIENCE ELECTIVE COURSES IN MCPS

MCPS also offers a variety of History & Social Sciences elective courses.

Students are encouraged to take the elective courses that are of interest to them.

Students must meet course prerequisites for all courses listed below (See Course Descriptions)

COURSE NAME	MCPS COURSE	COURSE NAME	MCPS COURSE
Psychology	29000	Appalachian Studies	29970
AP Psychology	2902A	Women's Studies	29980
DE/AP Psychology	DE2900A	African American History	29990
Psychology /Sociology	29960	AP African American Studies	2999A
DE Psychology /Sociology VIRTUAL	DE2996V	DE Contemporary World Religions	DE2999

GRADE 9 COURSE SELECTIONS

All incoming 9th grade students will have the opportunity to earn 8 credits during their freshman year of high school. There are 5 required courses and 3 elective courses that students select.

REQUIRED COURSES

ENGLISH:

- Students will select <u>English 9 or English 9 Honors</u> (English 9 Honors requires 8th grade English teacher recommendation)
- To address the needs of students who have struggled to meet SOL Reading and Writing Test requirements, MCPS provides needs-based, high school English classes to prepare students for success. Students are assigned to these classes based on SOL test scores and performance on a screening assessment. Parents will be informed if their student has met the placement criteria.

SCIENCE:

 Students who successfully completed Earth Science in middle school should select <u>Biology I or Biology I</u> <u>Honors</u> (Biology I Honors requires 8th grade science teacher recommendation). Students who did not pass Earth Science in 8th Grade can either repeat <u>Earth Science</u> <u>OR</u> take <u>Environmental Science</u> if additional content knowledge and science skills are needed prior to retaking Earth Science or taking Biology (recommended).

HISTORY / SOCIAL SCIENCE:

• Students will select <u>World History I or World History I Honors</u> (World History I Honors requires 8th grade history teacher recommendation)

MATH:

- MCPS provides a comprehensive mathematics program to promote the achievement of every student. A key component of our program is ensuring that all secondary students are placed in mathematics courses that deliver an appropriate level of challenge. All MCPS high schools collect and analyze multiple pieces of student data in order to make placement decisions, including grades, test scores, and teacher recommendations. Parents will be informed of mathematics placement decisions for the coming school year prior to the end of the current school year.
- Students who have successfully completed Algebra II may register for <u>elective Mathematics courses</u>.

HEALTH & PHYSICAL EDUCATION:

Students will select <u>HPE 9 or HPE 9/Strength & Conditioning</u>

ELECTIVE COURSES (See Graduation Requirements)

- WORLD LANGUAGES Required for Advanced Studies Diploma
- ENGLISH, HISTORY/SOCIAL SCIENCE, MATH, & SCIENCE ELECTIVES
- FINE ARTS
- <u>CAREER & TECHNICAL EDUCATION</u>
- <u>OTHER</u>

				MCPS	High School C	redits	1	Graduation	~	
			Course 11300	Weighted			Requirement	·		
ENGLISH	LISH 9			Code	11500	Credit Type	English		SOL Test(s)	
				coue		credit Type	Linglish		Required	
Grade Leve	el	9	Prerequisite(s)	None						
Students w structures,	/ill conti	nue to dev	er printed materia elop their reading tudents will write	compreher	nsion skills throug	h utilizing strate	gies to identify	form	nats, text	
NOTE: Beg School Wri	ginning i iting Por	n the 2021	rocess for writing, -22 school year, al h will be evaluated	including p Il students i	orewriting, organiz n English 9/9H wi	zing, composing Il submit a persu	, revising, editir Jasive paper for	ng, ar incl	nd publishing. usion in their Hig	-
NOTE: Beg	ginning i iting Por	n the 2021	-22 school year, al h will be evaluated This course incol excellence in pre	including p Il students i d along with rporates th evious Engli	orewriting, organiz n English 9/9H wi	zing, composing Il submit a persu in English 10 an Ilum and is desig e eager to put fo	, revising, editir Jasive paper for d English 11 to gned for studen	incl awai	nd publishing. usion in their Hig rd a Verified Crea ho have displaye	dit
NOTE: Beg School Wri in Writing. ENGLISH 9	ginning i iting Por	n the 2021 tfolio whic	-22 school year, al h will be evaluated This course incol excellence in pre	including p Il students i d along with rporates th evious Engli	orewriting, organiz n English 9/9H wi n assigned papers e English 9 curricu ish courses and ar	zing, composing Il submit a persu in English 10 an Ilum and is desig e eager to put fo	, revising, editir Jasive paper for d English 11 to gned for studen	incl awai	nd publishing. usion in their Hig rd a Verified Crea ho have displaye	dit
NOTE: Beg School Wri in Writing. ENGLISH 9 HONORS	ginning i iting Por	n the 2021 tfolio whic	-22 school year, al h will be evaluated This course incol excellence in pre	including p Il students i d along with rporates th evious Engli	orewriting, organiz n English 9/9H wi n assigned papers e English 9 curricu ish courses and ar	zing, composing Il submit a persu in English 10 an Ilum and is desig e eager to put fo	, revising, editir Jasive paper for d English 11 to gned for studen	incl awai	nd publishing. usion in their Hig rd a Verified Crea ho have displaye	dit
NOTE: Beg School Wri in Writing. ENGLISH 9 HONORS AHS	ginning i iting Por	n the 2021 tfolio whic	-22 school year, al h will be evaluated This course incol excellence in pre	including p Il students i d along with rporates th evious Engli	orewriting, organiz n English 9/9H wi n assigned papers e English 9 curricu ish courses and ar	zing, composing Il submit a persu in English 10 an Ilum and is desig e eager to put fo	, revising, editir Jasive paper for d English 11 to gned for studen	incl awai	nd publishing. usion in their Hig rd a Verified Crea ho have displaye	dit

WORLD HISTORY & GEOGRAPHY				Course 22150		High School Credits Weighted		1	Graduation Requirement	~
TO 1500 AD			Credit Type			History / Social Sciences		SOL Test(s) Required	~	
Grade Level		9	Prerequisite(s)	None						
to the end o on the devel themes of ge Western Civ themes of th NOTE: Begin based assess	f the 15 lopmen eograph ilization ne cours nning in sments ial stud	i th Century t, continu ny as well n and the i se. the 2022 for inclusi ies. (<i>VDO</i>	rse provides stude 7. Emphasis will bu- ity, and change of as developing ana mpact of early nor -23 school year, al on in their course <i>E contingencies m</i>	e placed on civilization lytical skills n-western o l students i portfolio th	n physical geograp s and cultures. Ph in interpreting m civilizations from a n World History I, nat will be evaluat	hy, geography s hysical geograph aps, photograph ancient times th /World History I ced, along with o	kills, and the inf ny will include th ns, graphs, chart rough the Renai (H) will complet other assignmen	luen e stu s. T ssan e tw ts, t	ices of geography udy of the five he origin of ice are central to performance- o award a Verifie	у
WORLD HISTORYThis course inc& GEOGRAPHY2215HTO 1500 ADstudents who here				ive displaye	e World History 8 ed excellence in p rt to meet the der	revious history/	social sciences c	ours	ses and are eager	
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

				MCPS Course	21200	High School C Weighted	redits	1	Graduation Requirement	~
ALGEBRA	ALGEBRA I				31300	Credit Type	Math		SOL Test(s) Required	~
Grade Lev	el	9-10	Prerequisite(s)							
through th of a graph	ie study ing calcu	of variable: Ilator is cor	rse extends stude s, expressions, equ nsidered essential ar equations and in	uations, ine to provide a	qualities, and ana a graphical and n	Ilysis of data deri umerical approac	ived from real- ch to topics in a	worl addit	d phenomena. U ion to a symbolio	
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

						High School C	Credits	1	Graduation	~
GEOMET	RY			MCPS Weighted				Requirement		
GLOWIEI						Credit Type	Math		SOL Test(s)	\checkmark
						· · · · //			Required	
Grade Lev	el	9-11	Prerequisite(s)	Algebra I						
trigonome proofs, inc	etric rela direct pr	tionships, a oofs, coord	metric models to and reasoning to ju inate proofs, algel including algebraid	ustify conclu braic metho	usions. Methods o ods, and verbal arg	f justification in guments. A varie	clude paragraphety of application	h pro ons a	oofs, two-columr nd general	ı
GEOMETR HONORS	Y	3143H	and problem sol	ving. It is d	ometry curriculum esigned for studer re eager to meet 1	nts who have de	monstrated suc	ccess	in previous	on
			course.				0.1			
AHS	•		course.							
AHS BHS	•		course.							
	•		course.							

	ALGEBRA, FUNCTIONS, & DATA ANALYSIS (AFDA)			MCDC		High School C	redits	1	Graduation	
ALGEBRA	, FUN	CTIONS, 8	& DATA	MCPS Course	31340	Weighted			Requirement	
ANALYSI	S (AFD	A)		Code	51340	Credit Type	Math		SOL Test(s)	
	•	•		coue		creat Type	Wath		Required	
Grade Leve	el	9-12	Prerequisite(s)	Algebra I						
Course Des	scription	1: This cou	rse is designed for	students v	vho have successfu	ully completed	the standards fo	or Alg	gebra I. Within t	he
context of	mathem	natical mod	eling and data and	alysis, stude	ents will study fun	ctions and their	behaviors, syst	ems	of inequalities,	
probability	, experii	mental desi	gn and implemen	tation, and	analysis of data.	Data will be ger	nerated by pract	ical	applications arisi	ing
from scien	ce, busir	ness, and fi	nance. Students v	vill solve pr	oblems that requi	re the formulat	ion of linear, qu	adra	itic, exponential,	, or
logarithmic	equation :	ons or a sys	tem of equations.	A course	sequence of Algeb	ora I, Geometry	, and AFDA sati	sfies	the math	
requireme	nts of th	ne Standaro	d diploma; a cours	se sequenc	e of Algebra I, Geo	ometry, AFDA,	and Algebra II s	atisf	ies the math	
requireme	nts of th	ne Advance	d Studies Diplom	а.						
AHS	•									
BHS	•									
CHS	•									
EMHS	٠									

r

	ALGEBRA II			MCPS		High School C Weighted	credits	1	Graduation Requirement	~
ALGEBRA II				Course Code	31350	Credit Type	Math	1	SOL Test(s) Required	~
Grade Level		9-12	Prerequisite(s)	Algebra I	& Geometry					
rational expre and data analy approach to g	ssior /sis. raph	ns, complex Emphasis is ing is used	and problem sol	ential and lo echanics of inctions. Nu ning calcula nds the Alg ving. It is do	ogarithmic equatic algebra with real umerical, graphica	ons, arithmetic a world application I, and algebraic o the course. and includes action of who have de	and geometric s ons and modelin representations dditional opport emonstrated suc	eque ng. A s and cunit	ences and series, transformationa solutions will b ies for applicatio s in previous	al e
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

	EARTH SCIENCE			MCPS Course 42100 Code	High School Credits Weighted			Graduation Requirement	~	
EARTHS					42100	Credit Type	Earth Scienc	e	SOL Test(s) Required	~
Grade Lev	/el	9-10	Prerequisite(s)							
the unive	rse. Maj		rse is designed to s is on geology, m ssed.	•		•	•		• •	
AHS	•									
BHS	•									
CHS	•									
CIIS										

						High School C	Credits	1	Graduation	
				MCPS		Weighted			Requirement	
ENVIRON	ENVIRONMENTAL SCIENCE Grade Level 9 Prerequisite(s)		Course Code	42700	Credit Type	Science (Earth Scienc or Biology)	e	SOL Test(s) Required		
Grade Leve	el	9	Prerequisite(s)							
planet. Th impact on laboratory watershed	ese outo the envi experie educati points o	comes focu ronment, a nces and fi onal exper	rse integrates the s on scientific inqu and legal and civic eld work that inclu iences). Students w ut the managemer	uiry, the phy responsibil ude descrip will be prov	ysical world, the ity. Students will tive and compara ided with opport	living environme I focus on data co ative studies as w cunities to engag	nt, resource con ollection and an vell as investigat e the communit	nserv alysi tion (ty, as	vation, humans' s through (i.e. meaningful s well as be expos	sed
AHS	٠									
BHS	•									
CHS	•									
EMHS	•									

	OLOGY I		MCPS		High School Credits Weighted		1	Graduation Requirement	~	
BIOLOG			Code	Course Code	43100	Credit Type	Science (Biology)	•	SOL Test(s) Required	~
Grade Level 9-10 Prerequisite(s)										
			etics, microbiology g of biological base							he
BIOLOGY HONORS		4310H	This course inco excellence in pre demands of a me	vious scienc	ce courses and a	re eager to put f	•		• •	
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

	0.0111		AL EDUCATION 9		73000	High School C Weighted	redits	1	Graduation Requirement	~
HEALTH	& PHY	SICAL ED	UCATION 9	Course Code	/ 5000	Credit Type	HPE		SOL Test(s) Required	
Grade Lev	el	9	Prerequisite(s)	None						
physical e classroom bleeding,	ducation compor contusio efibrillat NN 9 / 1 &	program on nent of HPE ns, fracture	education empha contributes to the 9 consists of Heal es, and anaphylact afety, drug educat Same as 73000 e	overall men Ith units that ic shock, action, family	ntal, emotional, so at include stress n dult and child care	ocial, and physic nanagement, pe diopulmonary re	al growth of ead rsonal health, fi suscitation (CPF	ch sti rst a	udent. The id skills for	
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

GRADE 10 COURSE SELECTIONS

All 10th grade students will have the opportunity to earn 8 credits during their sophomore year of high school. There are 4-5 required courses and 3-4 elective courses that students select, as determined by the diploma type they are seeking.

REQUIRED COURSES

ENGLISH:

- Students will select English 10 or English 10 Honors (English 10 Honors requires English 9 teacher recommendation)
- To address the needs of students who have struggled to meet SOL Reading and Writing Test requirements, MCPS provides needs-based, high school English classes to prepare students for success. Students are assigned to these classes based on SOL test scores and performance on a screening assessment. Parents will be informed if their student has met the placement criteria.

SCIENCE:

• Students who have successfully completed two high school credit courses, should select a <u>third science</u> <u>course</u>

HISTORY / SOCIAL SCIENCE:

 World History II is the recommended 10th grade History Couse for students pursuing the Advanced Studies Diploma. Students will select <u>World History II, AP European History, or AP World History: Modern</u> or <u>DE/AP Human Geography</u> (AP courses require previous history teacher recommendation)

MATH:

- MCPS provides a comprehensive mathematics program to promote the achievement of every student. A key component of our program is ensuring that all secondary students are placed in mathematics courses that deliver an appropriate level of challenge. All MCPS high schools collect and analyze multiple pieces of student data in order to make placement decisions, including grades, test scores, and teacher recommendations. Parents will be informed of mathematics placement decisions for the coming school year prior to the end of the current school year.
- Students who have successfully completed Algebra II may register for elective Mathematics courses

HEALTH & PHYSICAL EDUCATION:

• Students will select HPE 10 or HPE 10/Strength & Conditioning (Driver's Education is part of HPE 10)

ELECTIVE COURSES (See Graduation Requirements)

- WORLD LANGUAGES Required for Advanced Studies Diploma
- ENGLISH, HISTORY/SOCIAL SCIENCE, MATH, & SCIENCE ELECTIVES
- FINE ARTS
- <u>CAREER & TECHNICAL EDUCATION</u>
- <u>OTHER</u>

			MCPS		High School C Weighted	redits	1	Graduation Requirement	~
ENGLISH 10			Course Code	11400	Credit Type	English	I	SOL Test(s) Required	
Grade Level	10	Prerequisite(s)	English 9						

Course Description: In this course, students will read, comprehend, critique, and analyze a variety of literary works. They will interpret a variety of informational materials and apply critical reading skills across the content areas. Students will develop their expository writing skills and learn effective techniques of organization and development. Students will apply the writing process in developing written products and will edit writing for correct use of language, sentence formation, punctuation, capitalization and spelling.

NOTE: Beginning in the 2022-23 school year, all students in **English 10/10H** will submit an analytic paper (with research alignment) for inclusion in their High School Writing Portfolio which will be evaluated along with assigned papers in English 9 and English 11 to award a Verified Credit in Writing.

ENGLISH 10 HONORS			This course incorporates the English 10 curriculum and is designed for students who have displayed excellence in previous English courses and are eager to put forth the time and effort to meet the demands of a more rigorous and accelerated course.								
AHS	٠		lish 10H at AHS may be paired with AP Euro in a "shared block" that meets daily for the full school year. In scheduling format, students who take English 10H must also take AP Euro.								
BHS	•										
СНЅ	•	-	OH at CHS may be paired with AP Euro in a "shared block" that meets daily for the full school year. In Iuling format, students who take English 10H must also take AP Euro.								
EMHS	•										

WORLD HISTORY & GEOGRAPHY		MCPS		High School Credits		1	Graduation		
		-	22160	Weighted			Requirement		
1500 TO PRESENT				Course Code	Cradit Tura	History /		SOL Test(s)	
		Credit Type			Social Science	es	Required	Ť	
Grade Level 10 Prerequisite(s)			World His	tory & Geography	to 1500 AD				

Course Description: This course provides students with an examination of the historical themes which led to the establishment of vast empires by various European powers since the period of the Renaissance. The impact of European expansion into the Americas, Africa, and Asia during the 15th through the 19th centuries will be analyzed. Students will describe the political, economic, and social changes that developed in Europe during this same period. Students will gain an understanding of the impact of technology, especially analyzing the effects of the Industrial Revolution. This will lead to students explaining the development of twentieth century imperialism and nationalism, the rise of totalitarianism and the impact of World War I and II. The course concludes by focusing upon themes that have emerged during the post-world war era. Students will describe political developments in Europe and the United States in the second half of the 20th century. Political, economic, social, and physical geography will be incorporated throughout the course, allowing student to demonstrate skills in geographical analysis.

NOTE: All World History II students who must earn a verified credit for social studies will complete performance-based assessments for inclusion in their course portfolio that will be evaluated, along with other assignments, to earn a Verified Credit in social studies. (*VDOE contingencies may necessitate the continued use of the traditional SOL end-of-course examination.*)

AHS	•	
BHS	٠	
CHS	•	
EMHS	٠	

				14000		High School C	Credits	1	Graduation	
			A	MCPS Course	2399A	Weighted		\checkmark	Requirement	
AP EURC	JPEAN	HISTORY		Code	2399A	Credit Type	History / Social Science	es	SOL Test(s) Required	~
Grade Lev	el	10-12	Prerequisite(s)		story & Geography evel textbook and	•				
Program for or universion and proce practices, historical of also provide developm subjective covers the	or the A ity Europ sses in f and met compari des six th ents in c visions; history	P European bean history our historic hods emplo sons; and u nemes that lifferent tim states and of Europe f modern po	tent of this college History course. T y course. In AP Eu al periods from ap oyed by historians tilizing reasoning students explore thes and places: int other institutions from 1450 to the p litical order are ex	The course i propean Hist proximatel : analyzing about conte throughout eraction of of power; i present. Th	s designed to be t tory students inve ly 1450 to the pre primary and seco extualization, caus the course in ord Europe and the v individual and soc e political, militar	the equivalent of stigate significa sent. Students of ndary sources; of sation, and cont ler to make cont vorld; poverty a iety; and nation y, economic, ge	f a two-semesternt events, individuate develop and usedeveloping histo inuity and change nections among nd prosperity; of al and European ographic, cultura	er int dual the rical ge ov hist bjec bjec ide al, a	troductory colleg s, developments same skills, l arguments; mal ver time. The cou orical tive knowledge a ntity. This course nd social factors	e , ing irse
interpreta		•	secondary source	es. Researc	h and writing skill	s will be empha	sized, as will tec	hniq	•	
interpreta document NOTE: All assessmer	AP Eurc	questions. pean Histor clusion in t	secondary source ry students who n heir course portfo encies may necess	nust earn a lio that will	verified credit for l be evaluated, alc	social studies v	vill complete per issignments, to e	rforr earn	ue for mastery c mance-based a Verified Credit	f
interpreta document NOTE: All assessmer	AP Eurc	questions. pean Histor clusion in tl <i>OE continge</i> This cours	ry students who n heir course portfo	nust earn a lio that will <i>itate the co</i> with English	verified credit for I be evaluated, alc ontinued use of the 10 Honors in a "s	social studies v ong with other a <i>e traditional SOI</i> shared block" th	vill complete per ssignments, to e L end-of-course e nat meets for the	rforr earn exan	ue for mastery of mance-based a Verified Credit nination.)	f : in
interpreta document NOTE: All assessmer social stuc	AP Eurc	questions. pean Histor clusion in tl <i>OE continge</i> This cours	ry students who n heir course portfo encies may necess se may be paired v	nust earn a lio that will <i>itate the co</i> with English	verified credit for I be evaluated, alc ontinued use of the 10 Honors in a "s	social studies v ong with other a e traditional SOI shared block" th	vill complete per ssignments, to e L end-of-course e nat meets for the	rforr earn exan	ue for mastery of mance-based a Verified Credit nination.)	f : in
interpreta document NOTE: All assessmer social stuc AHS	AP Euro AP Euro Its for in lies. (VD	pean Histor clusion in tl <i>OE continge</i> This cours In this sch This cours	ry students who n heir course portfo encies may necess se may be paired v	nust earn a lio that will <i>itate the co</i> with English tudents wh with English	verified credit for l be evaluated, alc ontinued use of the 10 Honors in a "s o take AP Euro mi 10 Honors in a "s	social studies v ong with other a <i>e traditional SOI</i> shared block" th ust also take Eng shared block" th	vill complete per assignments, to e L end-of-course e nat meets for the glish 10H. nat meets for the	rforr earn exan e full	ue for mastery of mance-based a Verified Credit nination.)	f ∷in .HS

AP WORLD HISTORY: MODERN			MCPS		High School C	High School Credits		Graduation	
		A	Course	23801A	Weighted		\checkmark	Requirement	
			Code		Credit Type	History /		SOL Test(s)	
			Coue		Credit Type	Social Scienc	es	Required	
Grade Level	10-12	Prerequisite(s)	World History & Geography to 1500 AD. Students should be able to read a college-level textbook and write grammatically correct, complete sentences.						

Course Description: Students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

NOTE: All AP World History: Modern students who must earn a verified credit for social studies will complete performance-based assessments for inclusion in their course portfolio that will be evaluated, along with other assignments, to earn a Verified Credit in social studies. (*VDOE contingencies may necessitate the continued use of the traditional SOL end-of-course examination.*)

AHS		
BHS	•	
CHS		
EMHS		

DE/AP HUMAN GEOGRAPHY			MCPS		High School Credits Weighted		1 ✓	Graduation Requirement	
				Credit Type	History / Social Sciences		SOL Test(s) Required		
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	GEO 210 & GEO 220	College Credits	5	6	TRANSFER VIRGINIA
Grade Level 10-12 Prerequisite(s)			World History & Geography to 1500 AD. Students should be able to read a college-level textbook and write grammatically correct, complete sentences.						

Course Description: The content of this college-level course contains seven units of study as outlined in the 2019 Course and Exam Description (CED) published by the College Board. The units in the CED focus on topics including thinking geographically, population and migration, culture, political geography, agriculture, urban geography, and development and industrialization. Students will have multiple opportunities to apply the information addressed in each unit in activities including note-taking, current events, projects, and formative and summative assessments. The goal for the course is for students to become more geoliterate, more engaged in contemporary global issues, and more informed about multicultural viewpoints.

NOTE: All DE/AP Human Geography students who must earn a verified credit for social studies will complete performance-based assessments for inclusion in their course portfolio that will be evaluated, along with other assignments, to earn a Verified Credit in social studies. (*VDOE contingencies may necessitate the continued use of the traditional SOL end-of-course examination.*)

AHS		
BHS	•	This course is offered only as AP Human Geography (2212A) at BHS at this time.
CHS	•	
EMHS		
There are	not two	different groups of students (DE and AD) within a DE (AD course. All students in this combined course will be

There are <u>not</u> two different groups of students (DE and AP) within a DE/AP course. All students in this combined course will be required to enroll as an NRCC student and must be registered for the corresponding NRCC course(s) by the end of the drop/add period established by NRCC.

	ALGEBRA I		MCPS	21200	High School Cr Weighted	edits	1	Graduation Requirement	~	
ALGEBRA				Course 31300 Code		Credit Type	Math		SOL Test(s) Required	~
Grade Leve	el	9-10	Prerequisite(s)							
Course Description: This course extends students' knowledge and understanding of the real number system and its properties through the study of variables, expressions, equations, inequalities, and analysis of data derived from real-world phenomena. Use of a graphing calculator is considered essential to provide a graphical and numerical approach to topics in addition to a symbolic approach. Topics include linear equations and inequalities, systems of linear equations, relations, functions, polynomials, and statistics.										
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

				MCDC		High School C	Credits	1	Graduation	~
GEOME	rdv			MCPS Course	31430	Weighted			Requirement	v
GEOIVIE	IKI			Code	31430	Credit Type	Math		SOL Test(s) Required	~
Grade Lev	el	9-11	Prerequisite(s)	Algebra I						
geometry trigonome proofs, ine	, and the etric relat direct pro	use of geo tionships, a pofs, coord	rse emphasizes tw metric models to ind reasoning to ju inate proofs, algebraid including algebraid	solve proble ustify conclu braic metho c skills, will	ems. Course conto usions. Methods o ods, and verbal arg be used. Graphing	ent includes pro f justification in guments. A vario g calculators wil	perties of geom Iclude paragrapl ety of applicatic I be used to assi	etrio n pro ns a st in	t figures, pofs, two-column nd general teaching and	
GEOMETF HONORS						in previous	n			
AHS	•									
BHS	•									
CHS	•									
EMHS	•									
ALGEBR	A. FUN	CTIONS, 8	& DATA	MCPS		High School C Weighted	Credits	1	Graduation Requirement	
				Course	31340					
ANALYS	IS (AFD	A)		Code	51540	Credit Type	Math		SOL Test(s) Required	

Course Description: This course is designed for students who have successfully completed the standards for Algebra I. Within the context of mathematical modeling and data analysis, students will study functions and their behaviors, systems of inequalities, probability, experimental design and implementation, and analysis of data. Data will be generated by practical applications arising from science, business, and finance. Students will solve problems that require the formulation of linear, quadratic, exponential, or logarithmic equations or a system of equations. A course sequence of Algebra I, Geometry, and AFDA satisfies the math requirements of the Standard diploma; a course sequence of Algebra I, Geometry, AFDA, and Algebra II satisfies the math requirements of the Advanced Studies Diploma.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

			MCPS		High School C	redits	1	Graduation	\checkmark	
BIOLOGY	1			Course	43100	Weighted			Requirement	
DICLOUI	•			Code	43100	Credit Type	Science		SOL Test(s)	~
				Coue		creat Type	(Biology)		Required	
Grade Leve	el	9-10	Prerequisite(s)							
emphasis i	Course Description: This course presents an overview of the diversity of life and the interrelationship of all organisms. Major emphasis is on cytology, genetics, microbiology, botany, zoology, and ecology. The student should develop an appreciation of the iving world, an understanding of biological bases of problems that exist in the world and an understanding of man's place in nature.									
BIOLOGY HONORS		4310H	This course incorporates the Biology I curriculum and is designed for students who have displayed excellence in previous science courses and are eager to put forth the time and effort to meet the demands of a more rigorous and accelerated course.							
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

	ALGEBRA II			MCPS		High School C Weighted	Credits	1	Graduation Requirement	✓
ALGEBRA				Course Code	31350 -	Credit Type	Math		SOL Test(s) Required	~
Grade Leve	el 🛛	9-12	Prerequisite(s)	Algebra I	& Geometry					
and data and approach t emphasize ALGEBRA I HONORS	nalysis. o graph d. Grapl	Emphasis is ing is used	s placed on the me with families of fu s, especially graph This course exte and problem sol	echanics of Inctions. Nu ling calcula nds the Alg ving. It is de	ogarithmic equatic algebra with real umerical, graphica tors, are integral t gebra II curriculum esigned for studer are eager to meet t	world application I, and algebraic o the course. and includes act ats who have de	ons and modelin representations dditional opport	ng. A s and cunit	transformationa solutions will b ies for applicatio in previous	al e
AHS	•									
BHS	•									
CHS	•						_			
EMHS	•									

HEALTH	HEALTH & PHYSICAL EDUCATION 10 WITH DRIVER'S EDUCATION		MCPS	74050	High School C Weighted	redits	1	Graduation Requirement	~	
WITH DR	IVER'S	EDUCAT	ION	Course Code	, 1000	Credit Type	HPE		SOL Test(s) Required	
DRIVER'S	ED CL	ASSROO	Μ		70150	High School C	redits	0		
Grade Level 10 Prerequisite(s)			HPE 9							
Course Description: Physical education emphphysical education program contributes to the classroom component of HPE 10 consists of dr consumer health, and personal injury preventi state of Virginia.HEALTH & PHYSICAL EDUCATION 10 WITH DRIVER'S EDUCATION / STRENGTH & CONDITIONING74051 Same as 74050				ver educati on. Driver's	on and Health ur	hits that include f	amily life educa urs of instructio	ation	, mental health,	
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

GRADE 11 COURSE SELECTIONS

All 11th grade students will have the opportunity to earn 8 credits during their junior year of high school. There are 3-4 required courses and 4-5 elective courses that students select, as determined by the diploma type they are seeking.

REQUIRED COURSES

ENGLISH:

- Students will select English 11, AP English 11 or DE/AP English 11
- To address the needs of students who have struggled to meet SOL Reading and Writing Test requirements, MCPS provides needs-based, high school English classes to prepare students for success. Students are assigned to these classes based on SOL test scores and performance on a screening assessment. Parents will be informed if their student has met the placement criteria.

SCIENCE:

• Students should select a third or fourth science course, as required by the diploma type they are seeking

HISTORY / SOCIAL SCIENCE

- Students will select <u>VA/US History, AP US History or DE/AP US History</u> (AP US History requires previous history teacher recommendation)
- Students may also elect to take <u>AP European History</u>, <u>AP World History</u>: <u>Modern</u> or <u>DE/AP Human</u> <u>Geography</u> if not previously taken (AP courses require history teacher recommendation)

MATH:

- MCPS provides a comprehensive mathematics program to promote the achievement of every student. A key component of our program is ensuring that all secondary students are placed in mathematics courses that deliver an appropriate level of challenge. All MCPS high schools collect and analyze multiple pieces of student data in order to make placement decisions, including grades, test scores, and teacher recommendations. Parents will be informed of mathematics placement decisions for the coming school year prior to the end of the current school year.
- Students who have successfully completed Algebra II may register for elective Mathematics courses

ELECTIVE COURSES (See Graduation Requirements)

- <u>WORLD LANGUAGES</u> Required for Advanced Studies Diploma
- ENGLISH, HISTORY/SOCIAL SCIENCE, MATH, & SCIENCE ELECTIVES
- FINE ARTS
- <u>CAREER & TECHNICAL EDUCATION</u>
- <u>OTHER</u>

	ENGLISH 11		MCPS		High School C Weighted	credits	1	Graduation Requirement	~	
ENGLISH				Code	11500	Credit Type	English		SOL Test(s) Required	~
Grade Leve	el	11	Prerequisite(s)	English 10)					
Course Description: In this course, students will enhance their appreciation for literature by studying American literature, both classic and contemporary. They will read a variety of literary genres and informational texts to identify the prevalent themes in American literature that are reflective of American history and culture. Students will write in a variety of forms with an emphasis on persuasive essays and professional correspondence. Additionally, students will engage in research that requires the selection, evaluation, use, and documentation of a variety of sources. Each student will present a research product that is clearly written and accurately documented.						sis n,				
AHS	•									
BHS	•									
CHS	•									
EMHS	٠									

AP ENGLI	P ENGLISH 11		AP	MCPS Course	1196A	High School C Weighted	Credits	1 ✓	Graduation Requirement	~
LANGUA	GE & C	OMPOSI	TION	Code	11504	Credit Type	English	•	SOL Test(s) Required	~
Grade Leve	el	11	Prerequisite(s)	-	English 10 and the ability to read and comprehend college-level texts and apply the conventions of Standard Written English in their writing					
	Course Description: The content of this college-level course corresponds to the syllabus of the College Board Advanced Placement									
Program fo	r the Al	P English La	nguage and Comp	position cou	irse. The course a	ligns to an intro	oductory college	e-leve	el rhetoric and	
writing curi	riculum	, which req	uires students to	develop evi	dence-based analy	ytic and argume	entative essays f	that	proceed through	1
several stag	several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course,									
students de	evelop a	p a personal style by making appropriate grammatical choices. Additionally, students read and analyze the								
rhetorical e	element	s and their	effects in non-fict	ion texts, i	ncluding graphic in	nages as forms	of text, from ma	any d	disciplines and	
historical p	eriods.	This intens	ive writing course	explores t	he themes of Ame	rican literature	and literary tec	hniq	ues of persuasive	e
speeches a	nd essa	ys. One of	the benchmarks c	of the cours	e is the researched	d argumentativ	e paper. This co	ourse	e prepares studer	nts
for the Adv	anced F	lacement I	English Language a	and Compo	sition exam which	focuses on rhe	torical analysis	and a	argumentative	
writing.										
AHS	•									
BHS	•	Also ma	ay be offered as DE	E/AP English	n 11 Language & Co	mposition (base	ed on the availab	ility	of qualified staff a	at
CHS	٠		each high sc	hool who ha	ave the necessary c	redentials to tea	ach dual-enrollec	l Eng	lish).	
EMHS	•									

DE/AP ENGLISH 11		MCPS		High School C Weighted	High School Credits Weighted		Graduation Requirement	~		
LANGUAGE	UAGE & COMPOSITION		Code	DEI196A	Credit Type	English		SOL Test(s) Required	~	
Dual Enrolled	~	NEW RIVER Community College		NRCC Course Code(s)	ENG 111 & ENG 112	College Credi	ts	6	TRANSFER VIRGINIA	
Grade Level 11 Prerequisite(s)		English 10) *							

Course Description: See course description for AP English 11 Language & Composition (1196A).

This course is also based on NRCC syllabi for College Composition I and II. To meet NRCC requirements, the **ENG 111** portion of the course introduces and prepares students to the critical processes and fundamentals of writing in academic and professional contexts, teaches the use of print and digital technologies to promote inquiry, and requires the production of a variety of academic texts, totaling at least 4500 words (15 pages typed) of polished writing. The **ENG 112** portion of the course further develops students' ability to write for academic and professional contexts with increased emphasis on argumentation and research. Requires students to evaluate, integrate, and document print and digital sources to produce a range of academic and multimodal texts, culminating in a fully documented research paper. This course requires proficiency in using word processing and learning management software. **DE English 11 also addresses the Virginia Standards of Learning for English 11. Students must complete the ENG 111 portion of this course with a C or better in order to advance to the ENG 112 portion of this course.**

Included in this course will be NRCC's College Success Skills (SDV 100) which is required for students to receive a degree from NRCC. This one-credit course assists students in transition to colleges. Provides overviews of college policies, procedures, curricular offerings. Encourages contacts with other students and staff. Assists students toward college success through information regarding effective study habits, career and academic planning, and other college resources available to students. Students who satisfactorily complete this course will receive 1 college credit from NRCC for SDV 100.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

AHS	•	
BHS	•	Also may be offered as AP English 11 Language & Composition (based on the availability of qualified staff at each
CHS	•	high school who have the necessary credentials to teach dual-enrolled English).
EMHS	•	

There are <u>not</u> two different groups of students (DE and AP) within a DE/AP course. All students in this combined course will be required to enroll as an NRCC student and must be registered for the corresponding NRCC course(s) by the end of the drop/add period established by NRCC. This course may carry with it a fee to NRCC.

						High School C	Credits	1	Graduation	\checkmark
	0 11 0		V	MCPS Course	23600	Weighted			Requirement	v
VIRGINIA	& U.S	. HISTOR	Y	Code	23000	Credit Type	History /		SOL Test(s)	~
			•			createrype	Social Science	es	Required	
Grade Leve	el	11	Prerequisite(s)							
relationshi War period graphs, and developing NOTE: All assessment social studi	o betwe l. This c d maps. proble student ts for in	een the pas course furth Other skill m-solving a s in VA/US clusion in t	 history from the t and contempora her develops and r ls emphasized are and critical thinking History who must heir course portfo tencies may necess 	ry issues. N efines the p developing g skills; orga earn a veri lio that will	Virginia's history i previously learned and understandi anizing, analyzing fied credit for soc be evaluated, alo	s emphasized fro d writing and thi ing of events as a ;, interpreting, an cial studies will c ong with other a	om the colonial nking skills in in a part of a chror nd synthesizing omplete perfor ssignments, to e	perio terp nolog infor mano earn	od through the C reting charts, gical sequence; mation. ce-based a Verified Credit	Civil
AHS	-									
BHS	•									
CHS	•									
EMHS	•									

	AP U.S. HISTORY	AP	MCPS		High School C Weighted	credits	1	Graduation Requirement	~
AP U.S. HISTOR	Ŷ		Course Code	2319A	Credit Type	History / Social Science	es	SOL Test(s) Required	~
Grade Level	11	Prerequisite(s)	Students should be able to read a college-level textbook and write grammatically correct, complete sentences.						
Program for the AF university U.S. hist in nine historical p methods employed comparisons; and provides seven the in different times a technology; Americ study of United Sta political, economic university level. St colleges for credits	ory course. eriods from d by histori utilizing rea mes that s ind places: ca in the w ites history , social, mi udents at t	In AP U.S. History approximately 14 ans: analyzing prin asoning about con- tudents explore th American and nat orld; geography an from the colonial litary, internationa the end of the yea	v students in 491 to the p mary and se textualization roughout t ional idention era to the al, and relig r may opt to	nvestigate signific present. Students condary sources; on, causation, and the course in orde ity; migration and ronment; and cult present. It covers ious factors. Text o take a national of	ant events, indi develop and use developing hist d continuity and r to make conne settlement; pol cure and society s the various the ts, assignments, comprehensive	viduals, develop e the same skills orical argument change over tir ections among h litics and power . This course pr emes of America readings, and to examination wh	omer s, pra ts; m ne. T nistor ; wo eser an his ests nich v	nts, and processe actices, and laking historical The course also rical developmer rk, exchange, an nts an in depth story, such as are on the will be used by	nts

regular and lengthy assignments, individual discipline, library and writing skills, as well as having the ability to analyze and interpret primary and secondary sources.

NOTE: All students in AP US History who must earn a verified credit for social studies will complete performance-based assessments for inclusion in their course portfolio that will be evaluated, along with other assignments, to earn a Verified Credit in social studies. (*VDOE contingencies may necessitate the continued use of the traditional SOL end-of-course examination.*)

AHS	•	
BHS	•	Also may be offered as DE/AP US History (based on the availability of qualified staff at each high school who have
CHS	•	the necessary credentials to teach dual-enrolled History).
EMHS	•	

					High School C	redits	1	Graduation	
		AP	MCPS		Weighted		~	Requirement	✓
DE/AP U.S.	HIS	FORY – –	Course Code	DE2319A	Credit Type	History / Social Science	es	SOL Test(s) Required	~
Dual Enrolled	~	NEW RIVER Community College	NRCC Course Code(s)	HIS 121 & HIS 122	College Credits			TRANSFER VIRGINIA	(
Grade Level		11 Prerequisite(s)	See Belov	N *					
This course is requirements the European economic dev the history of overseas expa Standards of in order to ac * In order to a (see pages 9-	also , the explo relopi the U ansioi Learn Ivanc enrol 11 an	See course description for based on NRCC syllabi for Un HIS 121 portion of the cours pration, development of the ments, geographical expansi Jnited States from 1865 to p n, the two world wars, the C ning for Virginia & U.S. Histo e to the HIS 122 portion of the I in a DE course, students m d 194-196) in addition to su rry with it a fee to NRCC.	nited States e introduce American c on, the Civil resent, and old War and ory. Studen this course. ust meet al	History to 1877 a es the history of th colonies and their I War, and Recons I includes major po d the post-Cold W ts must complete	e United States institutions, the struction. The H olitical, social an ar era. DE U.S. the HIS 121 po ourse placemer	from its origins Revolution, ma IS 122 portion c d economic dev History also add rtion of this cou	to 1 jor p of the velop lress i rse	877, and include political, social ar e course introduc oments since 186 ses the Virginia with a D or bette	es nd ces 55, er
assessments	for in	s in DE/AP US History who m clusion in their course portfo OE contingencies may neces	olio that will	l be evaluated, alc	ong with other a	ssignments, to e	earn	a Verified Credit	: in
BHS CHS EMHS	• • •	Also may be offered as AP		(based on the avail ry credentials to te			igh s	chool who have t	he
required to en period establi	nroll a shed	different groups of students as an NRCC student and mus by NRCC. * In order to enro blished by NRCC (see <u>pages</u>	t be registe oll in a DE co	red for the corres ourse, students m	ponding NRCC c nust meet all ad	ourse(s) by the mission and cou	end Irse	of the drop/add placement	

This course may carry with it a fee to NRCC.

				MCPS		High School C	redits	1	Graduation	
AP EURO		Πίζτωρν		Course	2399A	Weighted		✓	Requirement	
AP EURO	PEAN	HISTORT			Credit Type	History / Social Sciences		SOL Test(s) Required	√	
Grade Leve	el	10-12	Prerequisite(s)		story & Geography vel textbook and					
or universit and proces practices, a historical c also provid developme subjective covers the that under	ty Europ ses in fo and met omparis es six th ents in d visions; history pin the ion of p	bean history bur historic hods emplo sons; and u hemes that ifferent tim states and of Europe f modern po rimary and	History course. T y course. In AP Eur al periods from ap oyed by historians tilizing reasoning a students explore thes and places: int other institutions from 1450 to the p litical order are ex secondary source	ropean Hist oproximatel :: analyzing about contect throughout ceraction of of power; i oresent. Th camined in c	ory students inve y 1450 to the pre- primary and seco- extualization, caus the course in ord Europe and the w ndividual and soci e political, militar depth. Students v	stigate significa sent. Students c ndary sources; c ation, and cont er to make com vorld; poverty a iety; and nation y, economic, ge vill develop criti	nt events, individ evelop and use t leveloping histor inuity and change nections among h nd prosperity; ob al and European ographic, cultura cal thinking skills	ical ical e ov isto ject ide l, an	s, developments, same skills, arguments; mak ver time. The cou orical tive knowledge a ntity. This course nd social factors ough analysis an	in rse nd
	ts for in	clusion in t	ry students who n heir course portfo encies may necess	lio that will	be evaluated, alc	ong with other a	ssignments, to ea	arn	a Verified Credit	in
						e traaitional SOL	. enu-oj-course e.	xan	nination.)	
social studi	•		,			e traditional SUL	enu-oj-course e	xan	nination.)	
social studi AHS						e traditional SOI	enu-oj-course e.	xan	nination.)	
	•		·			e traditional SOL	end-oj-course e.	xan	nination.)	

	PWORLD HISTORY:	AP WORLD HISTORY:		AP	MCPS		High School C	credits	1	Graduation							
AP WORI	LD HIST	ORY:		Course	23801A	Weighted		\checkmark	Requirement								
MODERN				Code	20001/1	Credit Type	History /		SOL Test(s)								
				couc	Code	credit rype	Social Science	es	Required								
Grade Leve		10-12	Prerequisite(s)		story & Geography												
Glade Leve	-	10-12	Fielequisite(s)	college-level textbook and write grammatically correct, complete sentences.													
Course Description: Students investigate significant events, individuals, developments, and processes from 1200 to the present.																	
Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary																	
sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and																	
continuity and change over time. The course provides six themes that students explore throughout the course in order to make																	
		•	•			•	•										
	-		•						connections among historical developments in different times and places: humans and the environment, cultural developments								
and interac	ctions, go	wernance,	and interactions, governance, economic systems, social interactions and organization, and technology and innovation.														
									vation.								
					-					1							
			Nodern students		earn a verified cre	dit for social stu	dies will comple	ete p	erformance-base								
assessmen	ts for inc	lusion in t	Nodern students heir course portfo	lio that will	earn a verified cree l be evaluated, alo	dit for social stung	dies will comple ssignments, to e	ete p earn	erformance-base a Verified Credit								
assessmen	ts for inc	lusion in t	Nodern students heir course portfo	lio that will	earn a verified cree	dit for social stung	dies will comple ssignments, to e	ete p earn	erformance-base a Verified Credit								
assessmen	ts for inc	lusion in t	Nodern students heir course portfo	lio that will	earn a verified cree l be evaluated, alo	dit for social stung	dies will comple ssignments, to e	ete p earn	erformance-base a Verified Credit								
assessmen [.] social studi	ts for inc	lusion in t	Nodern students heir course portfo	lio that will	earn a verified cree l be evaluated, alo	dit for social stung	dies will comple ssignments, to e	ete p earn	erformance-base a Verified Credit								
assessmen social studi AHS	ts for inc ies. (<i>VDC</i>	lusion in t	Nodern students heir course portfo	lio that will	earn a verified cree l be evaluated, alo	dit for social stung	dies will comple ssignments, to e	ete p earn	erformance-base a Verified Credit								

DE/AP HUM	DE/AP HUMAN GEOGRAPHY		MCPS Course	DE2212A	High School Credits Weighted			Graduation Requirement	
			Code		Credit Type	History / Social Scienc	es	SOL Test(s) Required	
Dual Enrolled	~				GEO 210 & GEO 220	College Credits 6		6	TRANSFER VIRGINIA
Grade Level 10-12 Prerequisite(s)			Code(s) Code(s) TRANSFER World History & Geography to 1500 AD. Students should be able to read college-level textbook and write grammatically correct, complete sentence						

Course Description: The content of this college-level course contains seven units of study as outlined in the 2019 Course and Exam Description (CED) published by the College Board. The units in the CED focus on topics including thinking geographically, population and migration, culture, political geography, agriculture, urban geography, and development and industrialization. Students will have multiple opportunities to apply the information addressed in each unit in activities including note-taking, current events, projects, and formative and summative assessments. The goal for the course is for students to become more geoliterate, more engaged in contemporary global issues, and more informed about multicultural viewpoints.

NOTE: All DE/AP Human Geography students who must earn a verified credit for social studies will complete performance-based assessments for inclusion in their course portfolio that will be evaluated, along with other assignments, to earn a Verified Credit in social studies. (*VDOE contingencies may necessitate the continued use of the traditional SOL end-of-course examination.*)

AHS		
BHS	•	This course is offered only as AP Human Geography (2212A) at BHS at this time.
CHS	•	
EMHS		

There are <u>not</u> two different groups of students (DE and AP) within a DE/AP course. All students in this combined course will be required to enroll as an NRCC student and must be registered for the corresponding NRCC course(s) by the end of the drop/add period established by NRCC. *** In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see <u>pages 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.**

CEONIET	GEOMETRY			MCPS	31430	High School Cr Weighted	edits		Graduation Requirement	~
GEOMET				Course Code	51450	Credit Type	Math	-	SOL Test(s) Required	~
Grade Leve	el	9-11	Prerequisite(s)	Algebra I		· · · ·				
proofs, indi	irect produced produc	oofs, coord	inate proofs, algel including algebraid This course exte and problem sol	nds the Gec ving. It is de	ds, and verbal a be used. Graphi pometry curriculu esigned for stud	s of justification inc arguments. A varied ng calculators will um and includes ad ents who have den st the demands of a	ty of application be used to ass ditional oppor nonstrated suc	ons a ist in tunit	nd general teaching and ties for applications in previous	
AHS	•	The hono	rs-level course is i	not offered a	at AHS.					
BHS	•									
CHS	•									
EMHS	•									

ALGEBRA	ELIN		2. DATA	MCPS		High School C	Credits	1	Graduation			
	•	•	DATA	Course	31340	Weighted			Requirement SOL Test(s)			
		~)		Code		Credit Type	Math		Required			
Grade Leve	el	9-12	Prerequisite(s)	Algebra I								
context of probability from scient logarithmic requireme requireme	Course Description: This course is designed for students who have successfully completed the standards for Algebra I. Within the context of mathematical modeling and data analysis, students will study functions and their behaviors, systems of inequalities, probability, experimental design and implementation, and analysis of data. Data will be generated by practical applications arising from science, business, and finance. Students will solve problems that require the formulation of linear, quadratic, exponential, or logarithmic equations or a system of equations. A course sequence of Algebra I, Geometry, and AFDA satisfies the math requirements of the Standard diploma; a course sequence of Algebra I, Geometry, AFDA, and Algebra II satisfies the math requirements of the Advanced Studies Diploma.											
AHS	•											
BHS	٠											
CHS	٠											
EMHS	•											

			MCPS		High School C Weighted	Credits	1	Graduation Requirement	~
ALGEBRA II			Course Code	31350	Credit Type	Math	I	SOL Test(s) Required	~
Grade Level	9-12	Prerequisite(s)	Algebra I	& Geometry					
rational expressio and data analysis. approach to graph emphasized. Grap ALGEBRA II HONORS	Emphasis is ing is used	s placed on the me with families of fu s, especially graph This course exte and problem sol	echanics of inctions. Nu ning calcula nds the Alg ving. It is d	algebra with real umerical, graphica	world application I, and algebraic o the course. and includes act onts who have de	ons and modelin representation dditional opport	ng. A s and tunit	transformationa solutions will b ies for applicatio in previous	e e
AHS •									
BHS •									
CHS •									
EMHS •	The hono								

GRADE 12 COURSE SELECTIONS

All 12th grade students will have the opportunity to earn 8 credits during their senior year of high school. There are 2-4 required courses and 4-6 elective courses that students select, as determined by the diploma type they are seeking.

REQUIRED COURSES

ENGLISH:

- Students will select English 12, AP English 12, DE/AP English 12 or DE English 12
- To address the needs of students who have struggled to meet SOL Reading and Writing Test requirements, MCPS provides needs-based, high school English classes to prepare students for success. Students are assigned to these classes based on SOL test scores and performance on a screening assessment. Parents will be informed if their student has met the placement criteria.

SCIENCE:

• Students should select a third or fourth science course, as required by the diploma type they are seeking

HISTORY / SOCIAL SCIENCE:

Students will select <u>VA & US Government, AP Government & Politics: United States or DE/AP Government</u>
 <u>& Politics: United States</u>

MATH:

- MCPS provides a comprehensive mathematics program to promote the achievement of every student. A key component of our program is ensuring that all secondary students are placed in mathematics courses that deliver an appropriate level of challenge. All MCPS high schools collect and analyze multiple pieces of student data in order to make placement decisions, including grades, test scores, and teacher recommendations. Parents will be informed of mathematics placement decisions for the coming school year prior to the end of the current school year.
- Students who have successfully completed Algebra II may register for elective Mathematics courses

ELECTIVE COURSES (See Graduation Requirements)

- WORLD LANGUAGES Required for Advanced Studies Diploma
- ENGLISH, HISTORY/SOCIAL SCIENCE, MATH, & SCIENCE ELECTIVES
- FINE ARTS
- <u>CAREER & TECHNICAL EDUCATION</u>
- <u>OTHER</u>

	IGLISH 12		MCPS Course	11600	High School C Weighted	Credits	1	Graduation Requirement	~	
ENGLISH	12			Code	11600	Credit Type	English	•	SOL Test(s) Required	
Grade Leve	el	12	Prerequisite(s)	English 11	L		•		-	
will read in reading ski contain cle	formati Ils in ot ar and a ation. S	onal and te her content accurate ide	ourse, students wi echnical texts and o t areas. Students v eas. They will proo I also develop com	continue to will produce duce well-d	develop their ow e informational an ocumented resea	n reading-proce Id expository pa rch papers, usir	ess skills. Stude apers that are lo ng a standard m	nts w gical etho	vill apply these ly organized and d of	I
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

				MCPS		High School C	Credits	1	Graduation	1
AP ENGL	SH 12			Course	1195A	Weighted		✓	Requirement	v
LITERATU	JRE &	COMPOS	ITION	Code	11354	Credit Type	English		SOL Test(s)	
			•	couc		credit Type	Linghish		Required	
Grade Leve	ade Level 12 Prerequisite(s				1 and the ability to	•	•		el texts and apply	/
Grade Leve		12	Trerequisite(5)	the conve	entions of Standar	d Written Englis	sh in their writin	g		
Course Des	cription	n: The cont	tent of this college	e-level cour	se corresponds to	the syllabus of	the College Boa	rd A	dvanced Placem	ent
Program fo	r the Al	P English Lit	terature and Com	position co	urse. The course a	ligns to an intro	oductory college	e-lev	el literary analys	is
course. The	e course	engages st	tudents in the clos	se reading a	and critical analysis	s of imaginative	e literature to de	epe	n their	
understand	ding of t	he ways wi	riters use language	e to provide	e both meaning an	d pleasure. As t	they read, stude	ents d	consider a work's	s
structure, s	style, an	d themes,	as well as its use o	of figurative	e language, imager	y, symbolism, a	nd tone. Writin	g ass	signments include	e
expository,	analyti	cal, and arg	gumentative essay	s that requ	ire students to an	alyze and interp	oret literary wor	ks. 1	This course	
prepares st	udents	for the Adv	vanced Placement	English Lite	erature and Comp	osition exam, w	hich concentrat	tes o	n the genres of	
poetry, nov	els, and	d drama. T	he course will em	ohasize Brit	ish literature. Stud	dents will be ex	pected to think	critic	cally, to synthesiz	ze
			-		to do many timed					
persuasive	as well	as analytica	al essays and docu	imented pa	ipers.	- .		-		
AHS	•	·	·	·	•					
BHS • Also may be offered as DE/AP English 12 Literature & Composition (based on the availability of qualified staff							at			
CHS • each high school who have the necessary credentials to teach dual-enrolled English).										
EMHS	•									

DE ENGLISH	112			MCPS Course	DE1600B	High School Credits Weighted		1 ✓	Graduation Requirement	~
COLLEGE CO	DMF	OSITION		Code	DL1000B	Credit Type	English		SOL Test(s) Required	
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	ENG 111 & ENG 112	College Credi	ts	6	TRANSFER VIRGINIA	
Grade Level		12	Prerequisite(s)	English 11	*					

Course Description: This course is based on NRCC syllabi for College Composition I and II. To meet NRCC requirements, the **ENG 111** portion of the course introduces and prepares students to the critical processes and fundamentals of writing in academic and professional contexts, teaches the use of print and digital technologies to promote inquiry, and requires the production of a variety of academic texts, totaling at least 4500 words (15 pages typed) of polished writing. The **ENG 112** portion of the course further develops students' ability to write for academic and professional contexts with increased emphasis on argumentation and research. Requires students to evaluate, integrate, and document print and digital sources to produce a range of academic and multimodal texts, culminating in a fully documented research paper. This course requires proficiency in using word processing and learning management software. **DE English 12 also addresses the Virginia Standards of Learning for English 12. Students must complete the ENG 111 portion of this course with a C or better in order to advance to the ENG 112 portion of this course.**

Included in this course will be NRCC's College Success Skills (SDV 100) which is required for students to receive a degree from NRCC. This onecredit course assists students in transition to colleges. Provides overviews of college policies, procedures, curricular offerings. Encourages contacts with other students and staff. Assists students toward college success through information regarding effective study habits, career and academic planning, and other college resources available to students. Students who satisfactorily complete this course will receive 1 college credit from NRCC for SDV 100.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see <u>pages 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

AHS		
BHS	•	
CHS	•	THIS COURSE IS ONLY FOR SENIORS WHO DID NOT TAKE DE ENGLISH 11
EMHS		

		40	АР мсря		High School C	Credits	1	Graduation	~
•	NGLISH URE &	COMPOSITION	Course Code	DE1195A	Weighted Credit Type	English	✓	Requirement SOL Test(s)	
Dual Enrolled	~		IVER College Code(s)	ENG 245 & ENG 225	College Credi		6	Required	
Grade Lev	el	12 Prere	quisite(s) DE Englis	h 11 or AP English	11 with a score	of 4 or higher of	on th	e AP Exam *	
meet NRCC periods, ge analysis of set of liter theme, as as highligh by section. * In order	C require enres, ar literary ary texts well as e ts an ex . DE Eng to enrol	ements, the ENG 2 ad authors, as well texts in their histo inked by a partice emphasizes interpr ploration of cultura (lish 12 also addre I in a DE course, st	llabi for ENG 245 (Brit 45 portion of the cou as develops critical the rical, cultural, social, su ular theme, with inque the and critical anal al ideas. Engages wor sses the Virginia Stan	rse examines Briti ninking and interp and/or literary cou iry into the histori ysis skills develop ks of diverse genre idards of Learning	sh literary tradi retive skills thro ntexts. The ENG ical, cultural, an ed through clos es, authors, and 5 for English 12.	tions and texts to bugh close readi 5 225 portion of d/or social cont e reading and ir time periods. S	from ing, c f the texts nterte Speci	diverse time liscussion, and course examines of the texts and extual study, as fic themes will v	s a the wel
NRCC. Thi Included ir	s course n this co	may carry with it a	ition to successful co a fee to NRCC. s College Success Skill	mpletion of prere s (SDV 100) which	quisite courses	. This course ma	ау са	rry with it a fee t	to
NRCC. Thi Included ir for which s	s course n this co	may carry with it a	ition to successful co a fee to NRCC.	mpletion of prere s (SDV 100) which	quisite courses	. This course ma	ау са	rry with it a fee t	to
NRCC. Thi Included ir for which s AHS	s course n this co students	may carry with it a urse will be NRCC's will receive 1 colle	ition to successful co a fee to NRCC. s College Success Skill ege credit from NRCC	mpletion of prere s (SDV 100) which	quisite courses is required for	This course ma students to reco	ay ca eive a	rry with it a fee t a degree from N	to RCC
NRCC. Thi Included ir for which s AHS BHS	s course n this co students	may carry with it a urse will be NRCC's will receive 1 colle	ition to successful co a fee to NRCC. s College Success Skill	mpletion of prere s (SDV 100) which .iterature & Comp	is required for osition (based or	This course ma students to reco n the availability	ay ca eive a of qu	rry with it a fee t a degree from N ualified staff at ea	to RCC
NRCC. Thi Included ir for which s AHS	s course n this co students •	may carry with it a urse will be NRCC's will receive 1 colle	ition to successful co a fee to NRCC. s College Success Skill ege credit from NRCC ered as AP English 12 I	mpletion of prere s (SDV 100) which .iterature & Comp	is required for osition (based or	This course ma students to reco n the availability	ay ca eive a of qu	rry with it a fee t a degree from N ualified staff at ea	to RCC

				MCDC		High School C	redits	1	Graduation	./
				MCPS Course	24400	Weighted			Requirement	v
VIRGINI	A & U.S	GOVER	NIVIENI	Code	24400		History /		SOL Test(s)	
				Coue		Credit Type	Social Scienc	es	Required	
Grade Lev	/el	12	Prerequisite(s)							
Course De	escription	n: This cou	rse that examines	the basic st	tructure of the di	fferent levels of	government, na	ation	al, state and loca	al.
	-		of the U.S. Constit				•			
	11171(11) M/r	iich democ	ratic government	rests ine i	hranches of gove	rnment and the	nowers inheren	t to i	each are thoroug	σhlv
	•		-		branches of gover		•			ghly
examined	, as well	as current	events and their w	vorldwide e	ffects. Included i	s a study of the	Virginia Constitu	ution	and local	
examined governing	, as well bodies.	as current Characteri	events and their w stics of the U.S. ec	vorldwide e conomic sys	ffects. Included i tem are explored	s a study of the ' I. Importance is	Virginia Constitı placed on the p	ution oracti	and local cal application c	of
examined governing political th	, as well bodies. heory and	as current (Characteri d special er	events and their w stics of the U.S. ec nphasis is given to	vorldwide e conomic sys basic demo	ffects. Included i tem are explored ocratic values, the	s a study of the I. Importance is e importance of	Virginia Constitu placed on the p citizen participa	ution oracti ation	and local cal application c in the democrat	of tic
examined governing political th	, as well bodies. heory and	as current (Characteri d special er	events and their w stics of the U.S. ec	vorldwide e conomic sys basic demo	ffects. Included i tem are explored ocratic values, the	s a study of the I. Importance is e importance of	Virginia Constitu placed on the p citizen participa	ution oracti ation	and local cal application c in the democrat	of tic
examined governing political th process, a	, as well bodies. heory and nd the u	as current o Characteri d special er nderstandi	events and their w stics of the U.S. ec nphasis is given to ng of social, politio	vorldwide e conomic sys basic demo cal, econom	ffects. Included i tem are explored ocratic values, the ic issues and curr	s a study of the l. Importance is e importance of rent events. Stu	Virginia Constitu placed on the p citizen participa dents are encou	ution oracti ation urage	and local ical application c in the democrat ed to participate	of tic in
examined governing political th process, a the politic	, as well bodies. heory and ind the u cal life of	as current o Characteri d special er nderstandi their comn	events and their w stics of the U.S. ec nphasis is given to ng of social, politic nunity, by register	vorldwide e conomic sys basic demo cal, econom ing to vote	ffects. Included i tem are explored ocratic values, the ic issues and curr and voting, by att	s a study of the l. Importance is e importance of rent events. Stu tending political	Virginia Constitu placed on the p citizen participa dents are encou	ution oracti ation urage	and local ical application c in the democrat ed to participate	of tic in
examined governing political th process, a the politic	, as well bodies. heory and ind the u cal life of	as current o Characteri d special er nderstandi their comn	events and their w stics of the U.S. ec nphasis is given to ng of social, politio	vorldwide e conomic sys basic demo cal, econom ing to vote	ffects. Included i tem are explored ocratic values, the ic issues and curr and voting, by att	s a study of the l. Importance is e importance of rent events. Stu tending political	Virginia Constitu placed on the p citizen participa dents are encou	ution oracti ation urage	and local ical application c in the democrat ed to participate	of tic in
examined governing political th process, a the politic letters or AHS	, as well bodies. heory and ind the u cal life of speaking	as current o Characteri d special er nderstandi their comn	events and their w stics of the U.S. ec nphasis is given to ng of social, politic nunity, by register	vorldwide e conomic sys basic demo cal, econom ing to vote	ffects. Included i tem are explored ocratic values, the ic issues and curr and voting, by att	s a study of the l. Importance is e importance of rent events. Stu tending political	Virginia Constitu placed on the p citizen participa dents are encou	ution oracti ation urage	and local ical application c in the democrat ed to participate	of tic in
examined governing political th process, a the politic letters or	, as well bodies. heory and ind the u cal life of speaking	as current o Characteri d special er nderstandi their comn	events and their w stics of the U.S. ec nphasis is given to ng of social, politic nunity, by register	vorldwide e conomic sys basic demo cal, econom ing to vote	ffects. Included i tem are explored ocratic values, the ic issues and curr and voting, by att	s a study of the l. Importance is e importance of rent events. Stu tending political	Virginia Constitu placed on the p citizen participa dents are encou	ution oracti ation urage	and local ical application c in the democrat ed to participate	of tic in

			MCPS		High School C	Credits	1	Graduation	\checkmark	
AP GOVE	RNME	NT		Course	2445A	Weighted	-	\checkmark	Requirement	
& POLITI	CS: UN	NITED ST	ATES		2443A	Currently Truck	History /		SOL Test(s)	
				Code	Code Credit Type Social Sciences Required					
Crede Louis	de Level 12 Prerequisite(s			Students	should be able to	read a college-l	evel textbook a	nd w	rite grammatical	lly
Grade Leve	ade Level 12 Prerequisite(s			correct, c	omplete sentence	s.				
Course Des	scription	n: The cont	tent of this college	e-level cour	se corresponds to	the syllabus of	the College Boa	rd A	dvanced Placem	ent
Program fo	or the Al	P United Sta	ates Government	and Politics	course. The cour	se introduces s	tudents to key p	olitio	cal ideas,	
-					t characterize the				-	
					ugh which student	•				
					o develop evidence					
	•	•		•	tates. The use of p	-			• •	
-		-				-	s is integrally inc	orpo		ise
	tudents	should exp	bect an in-depth a	nalysis of t	he American politi	cal system.				
AHS	•									
BHS	•	Also may			ment & Politics: Ur	•				at
CHS			each high scho	ol who have	the necessary crea	lentials to teach	dual-enrolled G	overr	nment).	
EMHS	•									

						High School C	redits	1	Graduation	
DE/AP G	OVERN	IMENT	A	MCPS		Weighted		\checkmark	Requirement	1
& POLITI	CS: UI	NITED ST	ATES	Course Code	DE2445A	Credit Type	History / Social Science	es	SOL Test(s) Required	
Dual Enrolled	Olled Image: Community College Course Code(s) PLS 136 College Credits 6							TRANSFER VIRGINIA	(
Grade Leve	el	12	Prerequisite(s)	See Belov	v *					
Course De	scriptio	n: See cour	se description for	AP Govern	ment & Politics: U	Jnited States (24	145A).			
governmer powers of	nt in the	United Sta	naking. The PLS 1 tes as related to f	ederalism;	constitutionalism;	; elections; pow				
communic U.S. Gover 136 portio * In order (see <u>pages</u>	ucation, ation th mment. n of this to enrol	criminal ju rough writt Students i s course.	ernment; state-loo stice and welfare. en reports. DE U. must complete th ourse, students mo in addition to su	The assign S. Governn e PLS 135 p ust meet al	nent also address portion of this cou l admission and c	se require colle es the Virginia S irse with a D or ourse placemer	ge-level reading Standards of Lea better in order It requirements	flue arnir to ac	icy issues, like ency and coherer ng for Virginia & dvance to the PL ablished by NRC	nt .S C
communic U.S. Gover 136 portio * In order (see pages NRCC.	ucation, ation th mment. n of this to enrol <u>9-11</u> ar	criminal ju rough writt Students i s course.	stice and welfare. en reports. DE U. must complete th ourse, students mo	The assign S. Governn e PLS 135 p ust meet al	ments in the cour nent also address portion of this cou I admission and co	se require colle es the Virginia S irse with a D or ourse placemer	ge-level reading Standards of Lea better in order It requirements	flue arnir to ac	icy issues, like ency and coherer ng for Virginia & dvance to the PL ablished by NRC	nt .s C
communic U.S. Gover 136 portio * In order (see <u>pages</u> NRCC. AHS	ucation, ation th ment. n of this to enrol 9-11 ar	criminal ju rough writt Students s course. Il in a DE co nd <u>194-196</u>	stice and welfare. en reports. DE U. must complete the ourse, students mu) in addition to su	The assign S. Governn e PLS 135 p ust meet al ccessful cor	ments in the cour nent also address portion of this cou l admission and co mpletion of prere	se require colle es the Virginia S urse with a D or ourse placemer quisite courses	ge-level reading Standards of Lea better in order It requirements This course ma	flue arnir to ac s esta	icy issues, like ency and coherer ng for Virginia & dvance to the PL ablished by NRC rry with it a fee t	nt . S C
communic U.S. Gover 136 portio * In order (see pages NRCC. AHS BHS	ucation, ation th mment. n of this to enrol <u>9-11</u> ar	criminal ju rough writt Students s course. Il in a DE co nd <u>194-196</u> Also may	stice and welfare. en reports. DE U. must complete the ourse, students me in addition to sue be offered as AP G	The assign S. Governn e PLS 135 p ust meet al ccessful cor overnment	ments in the cour nent also address portion of this cou I admission and completion of prere & Politics: United	se require colle es the Virginia S irse with a D or ourse placemer quisite courses States (based or	ge-level reading Standards of Lea better in order at requirements This course ma	flue arnir to ac s esta	icy issues, like ency and coherer ng for Virginia & dvance to the PL ablished by NRC rry with it a fee t	nt . S C
communic U.S. Gover 136 portio * In order (see pages NRCC. AHS BHS CHS EMHS	ucation, ation th ment. n of this to enrol 9-11 ar • •	criminal ju rough writt Students i s course. Il in a DE co id <u>194-196</u> Also may high schoo	stice and welfare. en reports. DE U. must complete the ourse, students mu) in addition to su	The assign S. Governn e PLS 135 p ust meet al ccessful cou overnment cessary crec	ments in the cour nent also address portion of this cou I admission and co mpletion of prere & Politics: United dentials to teach du	se require colle es the Virginia S irse with a D or ourse placemer quisite courses States (based or ual-enrolled Gove	ge-level reading Standards of Lea better in order at requirements This course ma the availability ernment).	of qu	icy issues, like ency and coherer ng for Virginia & dvance to the PL ablished by NRC rry with it a fee t	nt .s c

NRCC and may choose to take the AP exam, if desired.

	P GOVERNMENT A					High School C	Credits	1	Graduation	
AP GOVERN	MEI	NT		MCPS Course	2450A	Weighted		~	Requirement	V
& POLITICS:	& POLITICS: COMPARATIVE			Code	2450A	Credit Type	History /		SOL Test(s)	
				COUL		creatt rype	Social Science	es	Required	
Grade Level		12	Prerequisite(s)							
Course Descrip	otion	: The cont	ent of this college	-level cours	e corresponds to	the syllabus of t	he College Board	d Ad	vanced Placemer	nt
Program for th	e AP	Comparat	tive Government a	nd Politics	course. The cours	e introduces stu	idents to the rici	h div	ersity of political	
life outside the	Unit	ted States.	The course uses a	comparati	ve approach to ex	amine the politi	ical structures; p	olici	ies; and the	
political, econo	omic,	and social	l challenges amon	g six select	ed countries: Grea	t Britain, Mexic	o, Russia, Iran, (Chine	a, and Nigeria.	
Additionally, s	tuder	nts examin	e how different go	vernments	solve similar prol	plems by compa	ring the effectiv	enes	ss of approaches	to
many global is	sues.	The cours	se focuses on spec	ific represe	ntative countries	(comparative sy	stems) so that t	he st	tudent obtains ar	7
understanding	of th	ne diversity	of world political	structures	and politics.					
AHS										
BHS					ntly offered due t	1 2				
CHS					est, availability o				ources.	
EMHS			Stude	ents interes	ted in this course	should see the	ir school counse	lor.		

				14000		High School C	Credits	1	Graduation
ACI 1. AN				MCPS	50000	Weighted			Requirement
ASLI: AN	GL I: AMERICAN SIGN LANGUAGE ade Level 9-12 Prerequisite(s			Course Code	59900	Credit Type	World Langua	ige	SOL Test(s) Required
Grade Leve	Level 9-12 Prerequisite(s)								
the U.S. an opportunit skills and d information This offerin graduation colleges/un more. See	d beyor y to suc evelop J n about ng is in l . How niversit	nd. It prom ceed in a h ASL recepti themselve keeping wi ever, this c ies that acc	ve ("listening") ski s and others. Stud th the Virginia Sta ourse may not sat	s of deaf cu ased langua ills and exp dents do cla te Board o tisfy foreig gn languag	Iture as well as de ge. Students beg ressive ("talking") assroom presenta f Education's reco n language requir ge include Virginia	evelopment of t in the sequentia signing skills to tions in ASL. ognition of ASL a ements at some Tech, Universit	he language. St I development o understand and as a foreign lang e colleges and u ty of Virginia, Ra	uder of AS d cor guag nive adfo	nts have an SL communication mmunicate basic e for high school ersities. Virginia rd University and
AHS	•								
BHS	•	May he of	ffered at any high s	chool based	l on sufficient stud	ent interest/dem	and and the ava	ilahi	lity of qualified staff
CHS	May be offered at any high			chool based				nubi	
EMHS	٠								

	SL II: AMERICAN SIGN LANGUAGE			MCPS	_	High School Credits Weighted		1	Graduation Requirement	
ASL II: AI				Course Code	59950	Credit Type	World Langua	ige	SOL Test(s) Required	
Grade Leve				C average	e or better in ASL I					
American S expressive about peop	Sign Lang commu ple in a r	guage II bui nication sk more abstra	ilds upon topics, v ills in ASL and do v	ocabulary, various type scribe in mo	ommunication skil and grammar intra es of classroom pro ore detail their sch deaf community.	oduced in ASL I. esentations. St	Students work udents are enco	on i ourag	interpretation and ged to communica	
AHS	•									
BHS	•	May be of	forod at any high a	chool bacad	l on cufficient stude	nt intoract/dam	and and the ave	ilahil	lity of qualified stat	ff.
CHS	May be offered at any high			LIIUUI Dased	i on sumclent stude	ent interest/deff	ianu anu the ava	liabii	inty of qualified stat	
EMHS	٠									

						High School C	Credits	1	Graduation	
ACI 111. /				MCPS Course	59970	Weighted			Requirement	
	SL III: AMERICAN SIGN LANGUAGE			Code	59970	Credit Type	World Language		SOL Test(s)	
				Code		Credit Type	wond Langua	ige	Required	
Grade Lev	rade Level 10-12 Prerequisite(s)			C average	or better in ASL I					
increase th also increa and profes	eir unde se their sional lit	erstanding understand terature. S	of the language th ding of the langue tudents continue	and culture to develop	ommunication skil riety of literary ge e through the reac their language usa s present the trans	nres including A ling of a wide v age skills, both r	ASL story-telling ariety of articles receptively and	and s, sho expro	poetry. Students ort stories, novels	s
AHS	•									
BHS	•	May be of	fored at any high s	chool based	l on sufficient stude	nt interest/dem	and and the ava	ilahil	lity of qualified sta	off
CHS	•	iviay be of	iereu at ally flights		i on sumclent stude		ianu anu the ava	IIaDII	inty of qualified sta	an.
EMHS	•									

	ASL IV: AMERICAN SIGN LANGUAGE			MCPS	59980 -	High School Credits Weighted		1	Graduation Requirement
ASLIV: A				Course Code	59980	Credit Type	World Langua	ige	SOL Test(s) Required
Grade Leve				C average	or better in ASL I	I			
build on th students m	e topics ay have	, vocabular the oppor	y, grammar, and o tunity to teach ap	cultural issu propriate le	matical and syntages les developed thro essons to preschoo ly on translations a	oughout ASL cou ol, elementary,	urse sequence. and/or beginnir	Sign ng AS	Language IV
AHS	•								
BHS	•	May be of	forod at any high c	chool bacad	on sufficient stud	nt intoract/dam	and and the ava	ilahil	ity of qualified staff
CHS	May be offered at any high				on sumclent stude	ent interest/den	ianu anu the ava	nabii	ity of qualified staff.
EMHS	CHS • , , , ,								

CLUNECE				MCPS	58100	High School C Weighted	Credits	1	Graduation Requirement
CHINESE	1			Course Code	58100	Credit Type	World Langua	ige	SOL Test(s) Required
Grade Leve	el	9-12	Prerequisite(s)						
Mandarin (Chinese	– listening,	itences containing , speaking, reading plore and study th	gand writin	g – with an emph	asis on the abili	ty to communica	ate o	orally and in
AHS	•								
BHS	•	May be of	forod at any high a	chool bacad	on sufficient stud	nt interact/dam	and and the ave	ilahil	ity of qualified staff
CHS	٠	iviay be of	iereu at any nigh s	chool based	on suncient stud	ent interest/dem	iand and the ava	liabli	ity of qualified staff.
EMHS	٠								

				MCPS		High School C Weighted	Credits	1	Graduation Requirement	
FRENCH				Course Code	51100	Credit Type	World Langua	ige	SOL Test(s) Required	
Grade Lev	vel 🛛	9-12	Prerequisite(s)							
simple list	ening, sp	beaking, rea	ciations. Student ading and writing. es the linguistic ur	Additional	ly, students will l	begin to learn ab	out France and	othe	er francophone	
AHS	•									
BHS	•							: _ _ :		
CHS	•	iviay be of	fered at any high s	chool based	on sumclent stud	dent interest/dem	iand and the ava	liabi	inty of qualified sta	
EMHS	•									

FRENCH				MCPS Course	51200	High School C Weighted	Credits	1	Graduation Requirement	
FRENCH	11			Code	51200	Credit Type	World Langua	ige	SOL Test(s) Required	
Grade Leve	el	9-12	Prerequisite(s)	C average	or better in Fren	ch I				
	nd voca	bulary. Stu	rse further develo udents will continu			•		-		
AHS	•									
BHS	•	Mayboof	forod at any high c	chool bacad	on sufficient stud	ant interact/dam	and and the ave	ilahil	lity of qualified st	off
CHS	•	iviay be of	fered at any high s	chool based	on suncient stud	ent interest/deff	ianu and the ava	liabii	inty of qualified sta	d11.
EMHS	•									

FDENCU				MCPS	51200	High School (Weighted	Credits	1	Graduation Requirement
FRENCH				Course Code	51300	Credit Type	World Langua	age	SOL Test(s) Required
Grade Lev	el	10-12	Prerequisite(s)	C average	or better in Frer	nch II			•
as student	s both w	rite short o	rse introduces adv compositions and to French literatur	give oral pro	esentations on a	variety of topics	. Students will	cont	
AHS	•								
BHS	•	Maybaaf	fored at any high a	ah a al hacad	an cufficiant stur	lant interact (dan	and and the ave	ilahi	lity of avalified staff
CHS	•	iviay be of	iereu at any nigh s	chool based	on sunclent stud	ient interest/dem	iand and the ava	liabi	lity of qualified staff.
EMHS	•								

EDENICI	N7			MCPS	51400	High School C Weighted	Credits	1	Graduation Requirement	
FRENCH	IV			Course Code	51400	Credit Type	World Langua	age	SOL Test(s) Required	
Grade Lev	el	11-12	Prerequisite(s)	C average	or better in Frend	ch III				
the study	of more	complex gr	ammatical structu	ares and vo	to improve their li cabulary, as well a es as well. The cla	s an artistic, lite	erary, and histor	rical	survey of France	
AHS	•									
BHS	٠	Mayboof	forod at any high c	chool bacad	l on sufficient stud	nt intoract/dam	and and the ave	ilahil	lity of qualified at	off
CHS	٠	iviay be of	iereu al any nigh s	chool based	l on sufficient stude	ent interest/derr	ianu anu the ava	liabii	illy of qualified sta	an.
EMHS	•									

		MCDC		High School (Credits	1	Graduation	
FRENCH V		MCPS Course	51500	Weighted			Requirement	
FRENCH V		Code	51200	Credit Type	World Langua	age	SOL Test(s) Required	
Grade Level	Prerequisite(s)	C average	or better in Fren	ch IV	•			
Course Description	on: This course continues to r	einforce the	e grammar and str	uctures of Fren	ch IV. The mate	erial	will focus on Frei	nch
conversation, lite	rature from French authors, c	ultural and	current events, ar	nd listening acti	vities to increas	e coi	mprehension. Th	ne
class is conducted	l entirely in French.							
AHS		Al - t	athe offered deep t		· · · · · · · · · · · · · · · · · · ·			
BHS	histories lat		ntly offered due t					
CHS			est, availability oj				ources.	
EMHS	Stude	ints interest	ted in this course	snoula see thei	r scriuui counsei	ior.		

				MCPS		High School C	Credits	1	Graduation	
AP FRENC	H LAN	IGUAGE	A	Course	5170A	Weighted		\checkmark	Requirement	
AND CULT	FURE			Code	JITOA	Credit Type	World Langua	ge	SOL Test(s) Required	
Grade Level	I	11-12	Prerequisite(s)	C average	e or better in Fren	ch IV				
					se corresponds to					ent
-					The course empha		•		• •	
	-				tive, and presenta gies, and cultural					
	•				o best facilitate th				•	
•			•		in an exploration		-		•	
					preciation of cult					
	-	utions); pra	octices (patterns o	of social inte	eractions within a	culture); and pe	erspectives (valu	es, a	attitudes, and	
assumption	s).									
AHS	•									
BHS	•	May be of	fered at any high s	chool based	l on sufficient stude	ent interest/dem	and and the ava	ilahil	lity of qualified sta	aff
CHS	•		ierea ac any mgn s							
EMHS	•									

CEDNAAN				MCPS	52100	High School (Weighted	Credits	1	Graduation Requirement
GERMAN				Course Code	52100	Credit Type	World Langua	ige	SOL Test(s) Required
Grade Lev	el	9-12	Prerequisite(s)						
	al skills	and knowl	aking, reading and edge that provides hip.	-	•		•		
AHS	•								
BHS	•	Maybaaf	fored at any high a	chool bacad	on sufficient stud	ant interact /dan	and and the ave	ilahi	lity of qualified staff
CHS	•	iviay be of	iereu at any nigh s	chool based	on suncient stud	ent interest/den	ianu anu the ava	IIdDI	lity of qualified staff.
EMHS	•								

CED144				MCPS	52200	High School (Weighted	Credits	1	Graduation Requirement	
GERMA				Course Code	52200	Credit Type	World Langua	age	SOL Test(s) Required	
Grade Lev	el	9-12	Prerequisite(s)	C average	or better in Gerr	man l				
skills by br	oadenin	g the form	rse further develo al study of gramm sources as readin	ar and cont	inued vocabulary					
AHS	•									
BHS	•		faural at any high a					: _ _ :		
CHS	•	iviay be of	fered at any high s	chool based	i on sufficient stud	ient interest/dem	iand and the ava	illabi	ity of qualified sta	ITT.
EMHS	•									

CEDMAN				MCPS	52300	High School C Weighted	credits	1	Graduation Requirement	
GERMAN				Course Code	52300	Credit Type	World Langua	ige	SOL Test(s) Required	
Grade Leve	el	10-12	Prerequisite(s)	C average	e or better in Germ	nan II				
passive and	d subjun	ctive forms	rse reviews previo s of verbs. Studen ersational skills. A	ts will exte	nd their vocabula	ry, be introduce	d to more challe	engir	ng literature, and	
AHS	•									
BHS	•	May be of	fered at any high s	chool bacad	on sufficient stud	nt interact/dam	and and the ava	ilahil	lity of qualified st	off
CHS	•	iviay De Ol	iereu at ally flights		i on sumclent stude		ianu anu the ava	IIaDII	inty of qualified sta	a11.
EMHS	•									

CED1441				MCPS	52400	High School (Weighted	Credits	1	Graduation Requirement
GERMAN				Course Code	52400	Credit Type	World Langua	ige	SOL Test(s) Required
Grade Lev	el	11-12	Prerequisite(s)	C average	or better in Gern	nan III			· · ·
the applica	ation of I	more comp		tructures a	nd vocabulary. St	udents will stud	•		ting skills through terature and write
AHS	•								
BHS	•	Maybalof	fored at any high c	chool bacad	on sufficient stud	ant interact/dan	and and the ave	ilahi	lity of avalified staff
CHS	•	iviay be of	iereu al any nigh s	chool based	on suncient stud	ent interest/den	iand and the ava	liabi	lity of qualified staff
EMHS	•								

		MCPS		High School (Weighted	Credits	1	Graduation Requirement	
GERMAN V		Course Code	52500	Credit Type	World Langue	age	SOL Test(s) Required	
Grade Level	Prerequisite(s)	C average	or better in Ger	man IV				
	on: This course continues to re Ition, literature written in Gerr							ase
comprehension.	,							

SPANISI				MCPS	55100	High School C Weighted	credits	1	Graduation Requirement
SPAINISI				Course 55100 Code	Credit Type	World Language		SOL Test(s) Required	
Grade Lev	vel	9-12	Prerequisite(s)						
	simple lis	tening, spe	rse concentrates o aking, reading and	l writing ski	lls. The cultures	of Spanish speal	king countries w	ill be	
course str	resses fu	ndamental	skills and knowled	ge that pro	vides a basic prep	paration for furt	her scholarship.		explored. The
course str AHS	resses fu	ndamental	skills and knowled	ge that pro	vides a basic prep	paration for furt	her scholarship.		explored. The
		ndamental	skills and knowled	ge that pro	vides a basic prep	paration for furt	her scholarship.		
AHS	•	ndamental	skills and knowled	ge that pro	vides a basic prep	paration for furt	her scholarship.		

				MCPS	55200	High School C Weighted	credits	1	Graduation Requirement
SPANISI				Course 55 Code	55200	Credit Type	World Langua	age	SOL Test(s) Required
Grade Lev	vel	9-12	Prerequisite(s)	C average	or better in Span	ish I			
through in countries			dy of grammar and	d continued	l vocabulary build	ing. Exploration	n of the culture	of Sp	anish-speaking
AHS	•								
	•								
AHS	-								

				MCPS			credits		Graduation Requirement
				World Langua	age SOL Test(s) Required				
Grade Lev	vel	10-12	Prerequisite(s)	C average	or better in Span	ish II			
•	ry will be	introduced	itic materials. Pre d and students will	•	•		-		
	•								
AHS									
AHS BHS	•								
	•								

				MCPS	Weighted		Credits	1	Graduation Requirement
SPANISI	H IV			Course Code		Credit Type	World Langua	age	SOL Test(s) Required
Grade Lev	vel	11-12	Prerequisite(s)	C average	or better in Span	nish III			
	elections	-	lex grammatical s cal and contempo		•				
AHS	•								
BHS	•								
	-								
CHS	•								

		MCPS	MCPS Course 55500		Credits	1	Graduation Requirement	
SPANISH V		Course		Credit Type	World Langua	age	SOL Test(s) Required	
Grade Level	Prerequisite(s)	C average	or better in Spa	nish IV	•			
	n: This course continues to re ion, literature from Spanish a							
comprehension.	ion, itterature nom spanish a	iutiiors, cuitt	and and current	events, and liste	ening activities t			
AHS								
BHS	historical st			to multiple facto				
CHS				of certified staff, should see thei			Jurces.	
EMHS	Stude	ms meleste	cu in this course	siloulu see thei	i school courise	101.		

AP SPAN	ISH LA	NGUAGE	GUAGE AP	MCPS	5570.4	High School C Weighted	credits	1 ✓	Graduation Requirement	
& CULTU	RE			Course Code	5570A	Credit Type	World Langua	ige	SOL Test(s) Required	
Grade Leve	el	11-12	Prerequisite(s)	C average	e or better in Span	ish IV				
Course Des	scriptio	n: The cont	ent of this college	e-level cour	se corresponds to	the syllabus of	the College Boa	rd A	dvanced Placeme	ent
understood vocabulary course striv language a students in appreciatio	d by oth vusage, ves not nd cultu n an exp on of cul	ers) by app language of to overemp ure, the cou loration of ltural produ	lying interpersona ontrol, communic phasize grammatic rse is taught almo culture in both co acts (e.g., tools, bo	al, interpret ation strate cal accuracy ost exclusive ntemporar poks, music	The course emph tive, and presenta egies, and cultural at the expense o ely in Spanish. The y and historical co , laws, convention titudes, and assun	tional skills in re awareness. The f communicatio AP Spanish Lar ntexts. The cou s, institutions);	eal-life situation AP Spanish Lar n. To best facilit nguage and Cult rse develops stu	s. Th Iguag ate f ure c Iden	is includes ge and Culture the study of course engages ts' awareness an	d
AHS	•									
BHS	•	May be of	fered at any high s	chool hased	l on sufficient stude	ant interest/dem	and and the ava	ilahil	ity of qualified sta	aff
CHS	•		iereu at arry filgit s				and the ava	nabii	ity of qualified sta	arı.
EMHS	•									

CDANICI	1.\/I			MCPS Course		High School Credits Weighted		1	Graduation Requirement
SPANISH VI				Code	55000	Credit Type	World Langua	ige	SOL Test(s) Required
Grade Lev	vel 🛛	11-12	Prerequisite(s)	C average	or better in AP S	panish Languag	e & Culture		
Course De	escriptio	n: This cou	rse continues to re	einforce the	e grammar and st	ructures of Spar	hish V. The mate	erial	will focus on
Spanish co comprehe		ion, literatu	ire from Spanish a	uthors, cult	ural and current	events, and liste	ening activities t	o inc	crease
AHS	•								
BHS	•							: _ .	
CHS	May be offered at any hig		tered at any high s	chool based	on sumicient stud	ent interest/dem	iand and the ava	liabi	lity of qualified staff.
EMHS	•								

	VORLD MYTHOLOGY Grade Level 9-12 Prerequisite(state)			MCPS	11650	High School Credits Weighted		1	Graduation Requirement
WORLD				Course Code	11650	Credit Type	English Electi	ve	SOL Test(s) Required
Grade Leve	el	9-12	Prerequisite(s)						
different c Native Am	ultures. erican, /	The course African and	rse introduces stu will concentrate o Egyptian mytholo om diverse perspe	on Greek ar gy. The co	nd Roman mythol urse will be taugh	ogy, but will also t using an interc	o include mater disciplinary appr	ial fr oach	om Norse, Celtic,
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

CREATIN	CREATIVE WRITING /		Course 11/10					1	Graduation Requirement	
	ITERARY MAGAZINE I irade Level 9-12 Prerequisite(Course 11/10 Code	11710	Credit Type	English Elective		SOL Test(s) Required	
Grade Lev	/el	9-12	Prerequisite(s)							
• •	ntals of e	diting. Stu	ng the spring seme dents will serve as				•			
AHS	•									
BHS	•									
CHS	•									
EMHS										

CREATIV	CREATIVE WRITING / ITERARY MAGAZINE II				11711	High School Credits Weighted			Graduation Requirement
LITERAR	Y MAG	AZINE II		Course Code	11/11	Credit Type	English Electi	ve	SOL Test(s) Required
Grade Lev	/el	9-12	Prerequisite(s)	Creative \	Writing / Literary N	Magazine I			
course an Journals, s by the end	d will fea short sto d of the s	iture self-di ries, and po semester. S	betry will be gathe tudents are requir	nd student- red and de ed to subm	led discussions wi veloped into lengt iit work for public	th a strong emp hier pieces such ations both with	phasis on the pro h as a novella, n hin and outside	ofess nemo the s	sional writer's craft. oir, and scrapbook
AHS	•								
BHS	•								
CHS	•								
EMHS									

_	_			MCPS	12000	High School C Weighted	credits	1	Graduation Requirement				
JOURNA	LISM I			Course Code	12000	Credit Type	English Electi	ve	SOL Test(s) Required				
Grade Lev	rel	9-12	Prerequisite(s)	• •	ade of "B" or high ndation is require	• ·	rongly recommended and teacher						
newspape	r article y for pa	s, take phot	ourse, students wi tographs, sell adve nd digital photogra	rtisements	, and create page	layouts. Memb	ers of the class	will		e			
AHS	•												
BHS	•												
CHS	٠												
EMHS	•												

				MCPS		High School C	Credits	1	Graduation
JOURNA		1		Course Code	No. C	Weighted		Requireme	Requirement
JUUKINA					12100	Credit Type	English Electi	ve	SOL Test(s) Required
Grade Lev	/el	10-12	Prerequisite(s)	Journalism	nl				
responsib	ilities. S	econd-year	ourse, students wi staff members wi blications course.	ll be respor	sible for the over	all production o	of the newspape	r an	
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

				MCPS Course	rs ,	High School C Weighted	credits	1	Graduation Requirement	
JOURNA		1		Code	12110	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Level11-12Prerequisite(s)Journalism II with teacher recommendation is required.Course Description:In this course, students will continue the requirements of Journalism II and also fulfill lead										
responsib	ilities. T	hird-year st	aff members will l	be responsi	ble for the overall the required Engli	production of	the newspaper a			on
AHS	•									
BHS										
CHS										
EMHS •										

		. .	A 1		MCPS	051011	High School C Weighted	redits	1 ✓	Graduation Requirement
DE JOUR	NALI	SIV	/1 1		Course Code	DE1211	Credit Type	English Electi	ve	SOL Test(s) Required
Dual Enrolled	Code(s)									
Grade Leve	Placement test and English grade of "B" or higher is strongly recommended.									
the course it a fee to M must comp	introc IRCC. Iete t	duc Tł he	ces student his is a pub ENG 121	lications course.	ia, especial It does not	ly news gathering : satisfy the requi i	and preparatio red English cou	n for print. This r se for each gra	s cou de.	irse may carry with
AHS										
BHS	•									
CHS										
EMHS										

				MCDC		High School C	credits	1	Graduation	
		N 7 11		MCPS	DE1212	Weighted		\checkmark	Requirement	
DE JOURN	NALIS			Course Code	DEIZIZ	Credit Type	English Electi	VA	SOL Test(s)	
				couc		credit Type	LIIGIISII LIEUU	ve	Required	
Dual				NRCC	ENG 221 &					
Enrolled	✓			Course	Course ENG 222 College Credits					
Linolied			onning, conege	Code(s)	LING ZZZ					
Grade Leve					ith teacher recom	mendation is r	equired.			
Course Des	ourse Description: This course is based of				abus for Advanced	Journalism I &	II. To meet NRC	C re	quirements, the	
course cont	inues	the study	of all news media, e	specially ne	ews gathering and	preparation fo	r print. This coι	irse i	may carry with it a	
fee to NRCC	. This	is a publ	ications course. It d	oes not sat	isfy the required	English course	for each grade.	NO	TE: Students must	
complete tl	ne ENG	6 221 por	tion of this course w	/ith a D or k	better in order to a	advance to the	ENG 222 portio	on of	this course.	
This course	may c	arry with	it a fee to NRCC.							
AHS										
BHS										
CHS										
EMHS										

				MCPS		High School C Weighted	Credits	1	Graduation Requirement	
YEARBOO					12150	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Leve	el	9-12	Prerequisite(s)	Teacher r	ecommendation.		I		•	
reporting, of the scho	copyright ol yeart is cours	nting, copy- book. Stud	editing, and adve ents are required	rtising. It p to sell ads a	media ethics, grap rovides students v and/or contact bus ish course for eacl	vith hands-on e sinesses for the	experience in pla purpose of fund	nnin d rais	ng and preparations ing. This is a	on
AHS	•									
BHS	٠									
CHS	•									
EMHS	•									

				MCPS		High School C Weighted	Credits	1	Graduation Requirement
YEARBOO	JK PRC	DUCTIO		Course Code	12160	Credit Type	English Electi	ve	SOL Test(s) Required
Grade Leve	el	10-12	Prerequisite(s)	Members teacher.	hip in grades 10-1	2 and Media Ar	ts I with recom	men	dation by course
photograp the school	hy. Stuo yearboo	dents will ta ok. This is	rse continues the ake part in the cor a publications cou e arts requiremen	ncept develor urse. It doe	opment, headline	writing, picture	taking, article v	vritir	ng and editing of
AHS	•								
BHS	•								
CHS	•								
EMHS									

			MCPS		High School C Weighted	redits	1	Graduation Requirement	
YEARBOOK PF	ODUCTIO	N III	Course Code	12170	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Level	11-12	Prerequisite(s)	Members teacher.	hip in grades 10-1	2 and Media Ar	ts II with recom	men	dation by course	
publishing. Med yearbook. Editin	a Arts III stu g pages and rse. It does	rse continues the dents will take on teaching fundame not satisfy the rec	added resp intals of yea	onsibilities and as arbook design to n	sist in each pha ew staff memb	se of the produ ers will also be	ction requ	of the school ired. This is a	
AHS •									
BHS •									
CHS •									
EMHS •									

			N 11/	MCPS	10171	High School C Weighted	Credits	1	Graduation Requirement	
YEARBOO	IK PRC	JUUCIIU		Course Code	12171	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Leve	I	11-12	Prerequisite(s)	Members teacher.	hip in grades 10-1	2 and Media Ar	ts III with recon	nmer	ndation by course	e
(editors, ed taking, pictu responsibili	itors-in ure crop ties of 1	-chief, etc.) oping, layou the yearboo	and will be respo ut design, headline	nsible for t es, and cap s a publica	ership roles and re he writing, rewriti tions. Legal and fi tions course. It do uirement.	ng, editing, and nancial aspects	l proofreading o will be taught a	of the is we	e articles, picture Il as the	
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

				MCPS Course	PS -	High School C Weighted	Credits	1	Graduation Requirement	
FREE SH	FREE SHAKESPEARE Grade Level 10-12 Prerequisite(s) Course Description: This course expands theat				Code	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Lev					pproval					
plays their	own. It		with the set of eac Itiple learning abili ssion.	• • •	•					ē
AHS	•									
BHS										
CHS	•									
EMHS										

				MCPS		High School (Credits	1	Graduation	
FILM ST	עחוו			Course	14460	Weighted			Requirement	
FILIVI SI				Code	14400	Credit Type	English or		SOL Test(s)	
						Credit Type	Fine Arts Elect	ive	Required	
Grade Lev	vel	10-12	Prerequisite(s)	Teacher A	pproval					
•	d to the p	•	s of history, styles day by studying rev	•				-	•	
AHS	•									
BHS										
BHS CHS	•									

		MCPS		High School C	Credits	1	Graduation	
SPEECH FUND	AMENTALS	Course	13000	Weighted			Requirement	
(FORENSICS/D	EBATE)	Code	13000	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Level	Prerequisi	te(s) Teacher A	Approval				Required	
Course Description	on: This course introduc	es to the rules ar	nd events for com	petitive public s	peaking. They v	will b	e assisted in	
	spects of these activities							
0	ompetitive activities. St	, , , ,						
	-							
	ourse requirements. Lab							
	ivided between debate a						,	
for the course is l	imited to one credit per	year, regardless	of whether the stu	ident participat	es in both labs o	or on	ly one. This cou	rse
takes place outsid	le of regular school hour	s (scheduled as a	a "O Period"). The	course may be	repeated for cr	edit.	This course doe	s
	quired English course fo		,	1	1			
AHS								
BHS	biotovi		ntly offered due to	1 2				
CHS			est, availability oj ted in this course s				ources.	
EMHS	· · ·	students Interest	ieu in this courses	siloulu see thei	school counsel	01.		

HISTORY / SOCIAL SCIENCES ELECTIVES

				MCPS		High School C Weighted	credits	1	Graduation Requirement		
PSYCHOL	.OGY			Course Code	29000	Credit Type	History / Social Science Elective	es	SOL Test(s) Required		
Grade Leve	el	11-12	Prerequisite(s)								
psychology learning st sleep disor	Arade Level 11-12 Prerequisite(s) Course Description: This course provides a study of the thought processes and behavior of humans and examines the history of sychology including modern methods of behavioral analysis. Various topics of interest are covered, including the brain and earning styles, biological behavior, human development stages from infancy to elderly, personality types, the effects of sleep and leep disorders, dream stages, intelligence, and psychological disorders. Through examination of these topics, students gain an interpth understanding of their behavior, as well as the behavior of others.										
AHS											
BHS											
CHS	•										
EMHS	•										

						High School C	Credits	1	Graduation	
			AP	MCPS		Weighted		~	Requirement	
AP PSYC	HOLOG	δY		Course Code	2902A	Credit Type	History / Social Science Elective	es	SOL Test(s) Required	
Grade Leve	el	11-12	Prerequisite(s)							
Program for and menta psychologi and percep abnormal l ethical con survey cou Students w	or the Al I proces cal theo otion, le oehavio siderati rse is ar vill conc	P Psycholog sees. While ories, key co arning and r, and socia ons, as the n opportuni entrate on	tent of this college gy course. The cou considering the ps oncepts, and phene cognition, motival al psychology. Thro y use the scientific ity to investigate t recent studies acre rk in the course.	urse introdu sychologists omena asso tion, develo bughout the c method, e he field of p	uces students to the s and studies that ociated with such opmental psycholo e course, students evaluate claims an osychology in great	ne systematic an have shaped th topics as the bio ogy, testing and employ psycho d evidence, and iter depth than	nd scientific stud e field, students ological bases of individual differ logical research effectively com the psychology/	dy of exp beh rence met mur soci	human behavior lore and apply avior, sensation es, treatment of chods, including nicate ideas. This ology course offe	r ers.
AHS										
BHS	•									
CHS	•									
EMHS										

AP		MCPS		High School Credits Weighted		1 ✓	Graduation Requirement			
DE/AP PSY(AP PSYCHOLOGY		Course Code	DE2900A	Credit Type	History / Social Scienc Elective	es	SOL Test(s) Required	-	
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	PSY 200	College Credi	ts	3	TRANSFER VIRGINIA	(
Grade Level	•	11-12	Prerequisite(s)	See Below *	*	·			•	

Course Description: See course description for AP Psychology (2902A).

This course is also based on the NRCC syllabus for Principles of Psychology. To meet NRCC requirements, the course surveys the basic concepts of psychology. It covers the scientific study of behavior and mental processes, research methods, biological bases of behavior, sensation and perception, developmental psychology, learning, memory, thinking, intelligence, personality, social psychology, and psychological disorders and treatment. The assignments in the course require college-level reading fluency and coherent communication through written reports.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

AHS		
BHS	•	
CHS		
EMHS		
There are	not two	different groups of students (DE and AP) within a DE/AP course. All students in this combined course will be

There are <u>not</u> two different groups of students (DE and AP) within a DE/AP course. All students in this combined course will be required to enroll as an NRCC student and must be registered for the corresponding NRCC course(s) by the end of the drop/add period established by NRCC. * In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see <u>pages 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

AHS		
BHS	٠	
CHS	•	
EMHS		

DE PSYCHOLOGY/SOCIOLOGY		MCPS	DE2996	High School Credits Weighted		1 ✓	Graduation Requirement			
		Course Code		Credit Type	History / Social Scienc Elective	ces	SOL Test(s) Required			
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	PSY 200 & SOC 200	College Credi	ts	6	TRANSFER VIRGINIA	,
Grade Level		11-12	Prerequisite(s)	See Below	/*					

Course Description: This course is based on NRCC syllabi for Principles of Psychology and Introduction to Sociology. To meet NRCC requirements, the **PSY 200** portion of the course surveys the basic concepts of psychology. It covers the scientific study of behavior and mental processes, research methods, biological bases of behavior, sensation and perception, developmental psychology, learning, memory, thinking, intelligence, personality, social psychology, and psychological disorders and treatment. The assignments in the course require college-level reading fluency and coherent communication through written reports. The **SOC 200** portion of the course Introduces the fundamental concepts and principles of sociology with attention to sociological theory, research methods, and the impact of social inequality. It examines a variety of topics such as culture, race, social class, gender, major social institutions and their role in contemporary society, and the processes of social change. **NOTE: Only PSY 200 is a Passport Transfer course.**

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.
 VIRTUAL DE PSYCHOLOGY (DE2006) (Same as DE2006 excent the course is offered virtually.

PSYCHOLO	GY /	DE2996V	Same as DE2996 except the course is offered virtually.
AHS	•		
BHS	•	Onlytheyin	tual course is available at this time
CHS	•	Only the vir	tual course is available at this time.
EMHS	•		

						High School (Credits	1	Graduation				
				MCPS		Weighted		V	Requirement				
DE PHILOS	DE PHILOSOPHY			Course Code	DE2905	Credit Type	History / Social Science Elective	es	SOL Test(s) Required				
Dual Enrolled	V			NRCC Course Code(s)	PHI 100	College Credi	ts	3					
Grade Level		11-12	Prerequisite(s)	NRCC Plac	ement Exam								
presents an assumptions of philosoph	introd abou y and I ques	uction to pl t meaning, survey the tions in sev	rse is based on NR hilosophical proble knowledge, reality writings of a numb eral of the core are	ms and per , and value per of major	spectives with em s. Students will be historical figures	phasis on the sy introduced to t in the field. This	stematic questi he major topics, s class includes c	onin , pro an ex	g of basic blems, and meth ploration of the	ods			
AHS				Not currer	ntly offered due t	o multinle facte	ors including						
BHS			historical st		est, availability oj		, J	reso	urces				
CHS													
EMHS			51000			udents interested in this course should see their school counselor.							

DE CONTEMPORARY		MCPS		High School Credits Weighted		1 ✓	Graduation Requirement		
	WORLD RELIGIONS			Course Code	DE2999	Credit Type	History / Social Scienc Elective	es	SOL Test(s) Required
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	REL 230	College Credi	ts	3	
Grade Level 11-12 Prerequisite(s)		Prerequisite(s)	See Below *					•	

Course Description: This course is based on NRCC syllabi for Religions of the World. To meet NRCC requirements, the course introduces the religions of the world with attention to origin, history, and doctrine. Students consider the major teachings, beliefs and devotional practices of the world's religions, including views of the absolute, ceremonial rituals, sacred experiences and prevalent stories. This class includes modules on Buddhism, Christianity, Judaism, Daoism, Confucianism, Islam, Hinduism and various indigenous traditions.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

AHS		
BHS	•	
CHS		
EMHS		

APPALACHIAN HISTORY			MCPS		High School Credits Weighted			Graduation Requirement	
			Course 29970 Code		Credit Type Social Sciences Elective		es	SOL Test(s) Required	
Grade Lev	el	10-12	Prerequisite(s)						
• •		e course ar	s will be on local/ e focused reading	s and discuss	ions on Appala	achia, including m	ultiple perspect	ives	
-	•	•	mong them geogra	apiry, history	, culture, loikid	ore, literature, mi	isic, the arts, ec	onoi	mics, politics,
topics that	•	•	mong them geogra	apriy, history	, culture, loikid	ore, ilterature, mi		onoi	mics, politics,
topics that religion, ar	•	•	mong them geogra	apriy, history	, culture, loiki	ore, interature, mu		onoi	mics, politics,
topics that religion, ar AHS	nd educa	•	mong them geogra	apiry, history	, culture, forki	ore, interature, mu		onoi	mics, politics,

	WOMEN'S STUDIES					High School C Weighted	High School Credits 1 Weighted		Graduation Requirement	
WOMEN'S STUDIES				Course Code	29980	Credit Type	History / Social Science Elective	es	SOL Test(s) Required	
Grade Lev	/el	10-12	Prerequisite(s)							
across the	e world, nts, gend	with attenti er as a soci	provides an overvi ion to differences al and historical co	of gender, r	ace, ethnicity, cla	ass, sexuality, an	d nation. Topics	sincl	ude women's rig	hts
AHS	•									
BHS	•									
	•									
CHS	•									

					High School Credits			Graduation
		MCPS		Weighted			Requirement	
AFRICAN AM	ERICAN HIS	STORY	Course Code	29990	Credit Type	History / Social Science Elective	es	SOL Test(s) Required
Grade Level	10-12	Prerequisite(s)						

Course Description: This course surveys African American history from precolonial Africa through today. It introduces students to key concepts in African American history, from early beginnings in Africa through the trade of enslaved Africans; the agency and resilience of African Americans during the Civil War, Emancipation, and Reconstruction to the modern civil rights era; and the joy, celebrations, and collaborations in the art, history and culture of the past and Modern Black America. Students will learn about African American voices, including many not traditionally highlighted, and their contributions to the story of Virginia and America. The course will challenge students to explore primary and secondary sources documenting the African American experience. The content includes opportunities for students to develop the skills and attributes known as Virginia's Five C's (critical thinking, creativity, collaboration, communication, and citizenship) as they connect what they have learned to local history and issues.

This state-developed African American History elective course is presented in a blended learning format, an approach to education that provides students the opportunity to engage in the content through teacher-led class discussions and interactive digital content. In addition to the state-developed content, this course will integrate local history related to:

- Slavery in Montgomery County (Christiansburg, VA)
- Plantation Life (Historic Smithfield Plantation/Kentland Farm- Blacksburg, VA)
- New Town: Montgomery County, VA
- Christiansburg Industrial Institute
- African American Life in Christiansburg, VA (Historical Sites)
- African Americans at Virginia Tech

This course also includes a capstone project asking students to conduct independent research on a question or problem of their choosing in order to demonstrate a deeper understanding or encounter a different perspective of African American history.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

						High School C	Credits	1	Graduation	
	P AFRICAN AMERICAN STUDIES					Weighted		\checkmark	Requirement	
AP AFRIC	P AFRICAN AMERICAN STUDIES			Course	2999A	Credit Type	History /		SOL Test(s)	
				Code	ZJJJA		Social Science	es	Required	
	rade Loval 11-12 Prorequicita(s)						Elective		Required	
Grade Leve	el	11-12	Prerequisite(s)							
Program fo direct enco challenges	or the Al ounters and ach	P African Ar with varied nievements	nerican Studies co sources. Students of the contempor	ourse. This s explore ke ary momer	se corresponds to course examines to by topics that extent. This course for and the African diag	the diversity of nd from early A egrounds a stuc	African America frican kingdoms	in ex s to t	periences throug he ongoing	gh
AHS										
BHS	•									
CHS	•									
EMHS										

DE/AP HUM	DE/AP HUMAN GEOGRAPHY			MCPS	DE2212A	High School Credits Weighted		1 ✓	Graduation Requirement
						Credit Type	: Type History / Social Sciences		SOL Test(s) Required
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	GEO 210 & GEO 220	College Credits 6		6	TRANSFER VIRGINIA
Grade Level 10-12 Prerequisite(s)				tory & Geography vel textbook and					

Course Description: The content of this college-level course contains seven units of study as outlined in the 2019 Course and Exam Description (CED) published by the College Board. The units in the CED focus on topics including thinking geographically, population and migration, culture, political geography, agriculture, urban geography, and development and industrialization. Students will have multiple opportunities to apply the information addressed in each unit in activities including note-taking, current events, projects, and formative and summative assessments. The goal for the course is for students to become more geoliterate, more engaged in contemporary global issues, and more informed about multicultural viewpoints.

NOTE: All DE/AP Human Geography students who must earn a verified credit for social studies will complete performance-based assessments for inclusion in their course portfolio that will be evaluated, along with other assignments, to earn a Verified Credit in social studies. (*VDOE contingencies may necessitate the continued use of the traditional SOL end-of-course examination.*)

AHS		
BHS	•	This course is offered only as AP Human Geography (2212A) at BHS at this time.
CHS	•	
EMHS		
There are	not two	different groups of students (DE and AD) within a DE/AD course. All students in this combined course will be

There are <u>not</u> two different groups of students (DE and AP) within a DE/AP course. All students in this combined course will be required to enroll as an NRCC student and must be registered for the corresponding NRCC course(s) by the end of the drop/add period established by NRCC. * In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see <u>pages 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

DE/AP courses are taught by MCPS high school faculty who have met both the qualifications to teach at the college level and to teach the AP course. The content of combined DE/AP courses will include all topics from the syllabus of the corresponding NRCC course(s) as well as topics from the College Board Advanced Placement Program for the AP course necessary for students to be prepared for the corresponding AP exam. Upon successful completion of a DE/AP course, students will receive college credit from NRCC and may choose to take the AP exam, if desired.

				MCPS		High School C	credits	1	Graduation	
MATHEN	ATHEMATICS CAPSTONE ADE 12	Course	31360	Weighted			Requirement			
GRADE 1				Code	51500		Math		SOL Test(s)	
				Code Credit Type Math					Required	
Grade Leve	de Level 12 Prerequisite(s)				Algebra II					
Course Des	criptio	n: This cou	rse contains high-	interest co	ntextualized conte	ent designed to	give certain stud	dent	s an additional	
boost for c	ompete	nt and suce	cessful entry into o	college and	careers. The cour	se will add to st	udents' prepara	ition	for college and	the
	•		•	-	unctions and alge		• •		•	
		-		•	s in adaptability ar				•••••••	
	•	-		•	cs capstone cours	• •	•			
					s based on the Sta	-	•			d
					verified credits in r		• •	-		
		•			ccessfully comple		-			
-	-	-	toward the Adva			teu Aigeoru II,	this course may	3011		
	LS LI EU	it counting	towaru tile Auva	nceu Stuur						
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

TRICON		ov /		MCPS		High School C	Credits	1	Graduation	
	GONOMETRY / VANCED ALGEBRA de Level 10-12 Prerequisite(s)			Course	31500	Weighted	Math		Requirement	
ADVAN				Code		Credit Type			SOL Test(s)	
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Required	
Grade Lev	ade Level 10-12 Prerequisite(s)			Algebra II						
solutions of NOTE: Th order to e	of trigon is course nroll in I	ometric eq e content is DE/AP Prec	ric functions, estal uations. 5 designed to prep calculus or DE/AP <u>ges 9-11</u> and <u>194-</u> 3	are studen Calculus, st	ts for DE/AP Prec	alculus with Tri t all admission	gonometry or a and course pla	Cal	culus course. In ent requirements	5
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

						High School C	redits	1	Graduation		
DE/AP PI	RECAL	CULUS	AP	MCPS	D524624	Weighted		\checkmark	Requirement		
w/TRIGO	NOM	ETRY		Course Code	DE3162A	Credit Type	Math		SOL Test(s) Required		
Dual Enrolled	~		EW RIVER	NRCC Course Code(s)	MTH 167	College Credits		5	TRANSFER VIRGINIA		
Grade Leve	ade Level 11-12 Prerequisite(s)				Algebra II or Trigonometry/Advanced Algebra NOTE: A grade of C or higher in a prerequisite course is required <u>OR</u> Placement into MTH 161 or higher on VPT (Satisfaction of MTE 1-9) is required in addition to successful completion of a prerequisite course *						
science, an polynomia and trigono will prepar geometry. * In order (see pages qualify to to carry with	d data : l, ration ometric e stude to enro <u>9-11</u> ar take thi	science. Thi al, exponen application nts for the II in a DE co nd <u>194-196</u> s course if	is course fosters th ntial, and logarithr ns, including Law c skills and level of n purse, students mo) in addition to su	ne developr nic functior of Sines and rigor neede ust meet al ccessful co	ns. Topics in this co Cosines, as well a d for successful str l admission and co mpletion of prerec	nceptual unders ourse also incluo s an introductio udy in a sequen ourse placemer quisite courses.	standing of func de systems of ea n to conics. The ce of courses in at requirements Students in gr	tion quat one calc sest ade:	s including power, ions, trigonometry, e-semester course sulus with analytic		
AHS BHS CHS EMHS	• • • •	Also ma	y be offered as AP		(based on the avai credentials to teach			high	school who have the		
There are <u>required</u> to period esta DE/AP cou teach the A	o enroll ablished rses are AP cours	as an NRCC I by NRCC. taught by se. The cor	Student and mus MCPS high school Intent of combined	faculty who DE/AP cou) within a DE/AP c red for the corresp o have met both th rses will include al	bonding NRCC c ne qualifications I topics from th	ourse(s) by the s to teach at the e syllabus of the	end e coll e cor	of the drop/add ege level and to responding NRCC		
prepared f	or the c	orrespondi	-	n successfu	ed Placement Prog l completion of a I				r students to be college credit from		

	LCULUS			MCPS Course	21005	High School C Weighted	redits	1	Graduation Requirement	
CALCUL					31995	Credit Type	Math		SOL Test(s) Required	
Grade Lev	vel	11-12	Prerequisite(s)	Trigonom	etry/Advanced Al	gebra or DE/AP	Precalculus wit	h Tri	gonometry	
					AU · · · · · · · · · · · · · · · · · · ·		1 1 1	· II		
Technolog	gy will be	e used as a t	integral and its ap cool to verify and i en by students w	nvestigate	mathematical con	cepts and ideas	•	ically	y, and graphically	y.
Technolog	gy will be	e used as a t	ool to verify and i	nvestigate	mathematical con	cepts and ideas	•	ically	y, and graphically	y.
Technolog Note: This	gy will be	e used as a t	ool to verify and i	nvestigate	mathematical con	cepts and ideas	•	ically	y, and graphically	y.
Technolog Note: This AHS	gy will be	e used as a t	ool to verify and i	nvestigate	mathematical con	cepts and ideas	•	ically	y, and graphically	y.

	DE APPLIED CALCULUS I			MCPS Course	DE31998	High School C Weighted	redits	1 ✓	Graduation Requirement
				Code	DL31998	Credit Type	Math		SOL Test(s) Required
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	MTH 261	College Credi	ts	3	TRANSFER VIRGINIA
Grade Level		11-12	Prerequisite(s)	into MTH	calculus w/Trigo 261 or higher on metry /Advanced	the VPT-Calculu	-	-	r) <u>OR</u> Placement essful completion

Course Description: This course is based on the NRCC syllabus for Applied Calculus I. To meet NRCC requirements, the course will introduce limits, continuity, differentiation and integration of algebraic, exponential and logarithmic functions, and techniques of integration with an emphasis on applications in business, social sciences and life sciences.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

NOTE: Students should determine requirement of 4-year transfer institution prior to selection. Both MTH 261 and MTH 262 are required at Virginia Tech for majors in the The Pamplin College of Business.

AHS	•	
BHS	٠	
CHS	•	
EMHS	•	

DE APPLIED	DE APPLIED CALCULUS II			MCPS Course	DE31999	High School C Weighted	Credits	1 ✓	Graduation Requirement	
				Code		Credit Type	Math		SOL Test(s) Required	
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	MTH 262	College Credi	ts	3		
Grade Level	Grade Level 11-12 Prerequisite(s)			DE Applie	DE Applied Calculus I (with a grade of C or higher) *					
Course Deseri	-	. This soul	rea is based on the		bus for Applied C	alaulus II. Ta m	ant NDCC roquin		nto the course w	

Course Description: This course is based on the NRCC syllabus for Applied Calculus II. To meet NRCC requirements, the course will cover techniques of integration, an introduction to differential equations and multivariable calculus, with an emphasis throughout on applications in business, social sciences and life sciences.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

NOTE: Students should determine requirement of 4-year transfer institution prior to selection. Both MTH 261 and MTH 262 are required at Virginia Tech for majors in the The Pamplin College of Business.

AHS	٠	
BHS	٠	
СНЅ	•	
EMHS	•	

									1		
					MCPS		High School C	redits	1	Graduation	
DF/AP C		1111	JS I (AB)		Course	DE3177A	Weighted		✓	Requirement	
			55 I (AB)		Code	0101///	Credit Type	Math		SOL Test(s)	
							cicult type	Wath		Required	
Dual					NRCC					<u>, 100</u>	
Enrolled		✓		W RIVER	Course	MTH 263	College Credi	ts	4		1
Linonea			Con	indinty conege	Code(s)					TRANSFER VIRGINIA	
					-	ecalculus w/Trigor		•	-	·	
Grade Lev	/el		11-12	Prerequisite(s)		263 on the VPT-C		on to successfu	ıl cor	npletion of	
					Trigonom	etry /Advanced A	gebra *				
Program f equivalen topics in t differentia Theorem graphicall use techn in interpro	for th t to a hese ation of Ca y, nu ology eting	e AF a firs area rule llculu mer y to r resu nrol	P Calculus A t semester as, includin es, applicati us. The cou ically, analy reinforce re ults. I in a DE co	AB course and the college calculus c g concepts and sk ion of differentiati rse teaches stude ytically, and verba elationships amon	NRCC syllal ourse devo ills of limits ion, antider nts to appr lly, and to r g functions ust meet al	se corresponds to bus for Calculus w ted to topics in dif derivatives, diffe ivatives, integrals oach calculus cond make connections to confirm writte admission and completion of prere	ith Analytic Geo ferential and in rentiation of va and application cepts and proble amongst these on work, to imp	ometry I. The co tegral calculus. irious types of f s of integration ems when they representation ement experim t requirement	ourse The funct a, and are i s. Sti nenta	is roughly course covers ions and use of d the Fundament represented udents learn how ation, and to assis	al v to st C
AHS	,	•	-			(based on the avai olled Mathematics		ed staff at each	high	school who have t	the
BHS	,	•				alculus II (BC) may n the same schoo		-		-	n
снѕ		•	one scho				,		1		
EMHS	,	•		-		est, availability of d DE/AP Calculus			-		
required t period est DE/AP cou teach the course(s) prepared	ablis urses AP co as we	roll a hed are ours ell as	as an NRCC by NRCC. taught by I e. The con s topics fro prrespondi	Student and must MCPS high school tent of combined m the College Boa	faculty who DE/AP cou Ind Advance n successfu) within a DE/AP of red for the correspondence of have met both the rses will include al ed Placement Progonal l completion of a l	bonding NRCC o the qualifications I topics from th ram for the AP	ourse(s) by the s to teach at the e syllabus of th course necessa	e end e coll e cor ry fo	of the drop/add ege level and to responding NRC r students to be	

			AP	MCPS	DE21704	High School C Weighted	credits	1 ✓	Graduation Requirement
DE/AP CA	led Community Colle e Level 11-12 Prerequisi se Description: The content of this of am for the AP Calculus BC course and an for the AP Calculus BC course and an ecessary credentials • Also may be offered an ecessary credentials • DE/AP Calculus I (AB OR as semester cour school year). • Depending on sufficit that both DE/AP Calcules and that both DE/AP Calcules and the stablished by NRCC. P courses are taught by MCPS high state and the AP course. The content of come of state and the stablished by NRCC.		Course Code	DE3178A	Credit Type	Math	•	SOL Test(s) Required	
Dual Enrolled	Image: Second state of the second s			NRCC Course Code(s)	MTH 264	College Credi	ts	4	
Grade Leve	el	11-12	Prerequisite(s)	DE/AP Ca	lculus I (AB) with a	a C or higher *			
	-		-		•	-	-		
AHS	•	-			•		ed staff at each ł	nigh s	school who have the
BHS	•	-	• •	-			· ·	•	
СНЅ	•				ine seneer year (a				
EMHS	•	•	•						•
required to	enroll a	is an NRCC	•	•	•				
teach the A course(s) a prepared f	AP courses is well as or the co	e. The con topics from prresponding	tent of combined m the College Boa	DE/AP cou rd Advance n successfu	rses will include al ed Placement Prog	l topics from th ram for the AP	e syllabus of the course necessa	e cor ry fo	responding NRCC

COMPUT				MCPS	22000	High School C Weighted	redits	1	Graduation Requirement
COMPUT	EK SCI	ENCE FU	UNDATIONS	Course Code	32000	Credit Type	Elective		SOL Test(s) Required
Grade Leve	el	9-12	Prerequisite(s)	Algebra I					
Course De	scription	n: This fou	Indational cours	e places ar	n emphasis on co	omputer progr	amming within	n th	e context of
broader c	oncept	s of compu	uter science. The	standard	s of the course b	uild on the cor	ncepts of com	pute	er science
develope	d in prio	or grade le	vels. The standa	rds provid	e a transition fro	om block-based	d programmin	g to	a text-based
programn	ning lar	nguage and	d familiarize the	student w	ith developing a	nd executing c	omputer prog	ram	s. Students will
use progr	ammab	le comput	ting tools throug	hout the c	ourse for explor	ing and creatir	ng computer p	rogr	ams, facilitating
			ving, and verifyi			0	0 1 1	0	, 0
AHS	•		- '	-					
BHS	•								
CHS	•								
EMHS	•								

			MCPS		High School C	Credits	1	Graduation	
AP COMPUTE	R SCIENCE	A	Course	3186A	Weighted		✓	Requirement	
PRINCIPLES			Code	5100A	Credit Type	Elective		SOL Test(s)	
	n	ſ						Required	
				Il completion of Al					
				and composition		-	-	-	
	0.42	D ···· ()		ultiple approache					
Grade Level	9-12	Prerequisite(s)		dinate system to r			-		
				and their advisers				•	
				uilds upon a founda be applied through			puta	ational reasoning	
<u> </u>									<u> </u>
-		-		se corresponds to		-			
•		•		he course is designed					
	-			elop computation ta and working wit	-				',
-		-	-	he creative aspect	-				
				will also develop e		-		-	
				, and will discuss a					ve
-	-			/ill introduce stude					
				ersecurity concern					or
-	-		-	Science A course.	-				
AHS •									
BHS •									
CHS •									
EMHS •	Offered ir	n alternating year	with Proba	bility and AP Statis	tics (Next offer	ing: 2023-2024)			

			AP	MCPS Course	3185A	High School C Weighted	redits	1 ✓	Graduation Requirement	
AP COMP	UTER	SCIEINCE	A	Code	31854	Credit Type	Math or Scier	nce	SOL Test(s) Required	
Grade Leve	I	10-12	Prerequisite(s)	concepts their advi upon a fo	e of basic English found in the uses sers understand t undation of mathing such a course.	of function nota hat any significa	ation. It is impo int computer sc	ortan ienco	t that students a e course builds	ind
Program for science. The strategies a potential sc imperative solutions th is compatib Note: This advanced st	r the Al e cours nd met olutions probler at can le with course	P Computer e introduce chodologies s, and the e m solving an scale up fro many CS1 can be use	tent of this college r Science A course as students to com a, organization of a thical and social ir and design using Ja bom small, simple p courses in college d as a science crea	. The cours puter scier lata (data s nplications va language roblems to s and unive	e is equivalent to ace with fundament tructures), approa of computing. The e. These technique large, complex pr rsities.	a first-semeste ntal topics that i aches to process e course empha es represent pro oblems. The AP	r, college-level o include problem sing data (algori sizes both objec oven approache Computer Sciel	thm: thm: ct-or s for nce	se in computer ving, design s), analysis of iented and developing A course curricul	
AHS										
BHS CHS	•									
EMHS	•									

				MCPS		High School C	redits	1	Graduation	
PROBABI	I ITV 9.	статіст		Course	31900	Weighted			Requirement	
PRUDADI		JIAIIJI		Code	51900	Credit Type	Math		SOL Test(s)	
				Coue		credit Type	Iviatii		Required	
Grade Leve	el	10-12	Prerequisite(s)	AFDA or A	Algebra II					
Course Des	criptior	n: This cou	rse is an introduct	ion to desc	riptive statistics, o	elementary prob	bability theory (expe	rimental and	
		-	and random sam	pling. The o	class is very techn	ology-oriented a	and employs bo	th gr	raphing calculato	ors
and compu	ter soft	ware.								
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

	DATA SCIENCE		MCPS		High School C Weighted	redits	1	Graduation Requirement		
DATA SCI	ENCE			Course Code	32100	Credit Type	Math	1	SOL Test(s) Required	
Grade Leve	el	10-12 Prerequisite(s) AFDA or Algebra II n: This course provides an introduction to the learning principles associated with analyzing								
use of oper concepts an solving stru	n source nd data ucture to	e technolog -intensive c o interact w	rse provides an ini y tools, students v omputing to find vith large data sets effectively about	vill identify solutions a s as a mean	and explore prob nd make generaliz s to formulate pro	lems that involver the student stu	ve the use of rel s will engage in	atior a da	nal database ta science proble	em-
AHS	•									
BHS	•									
CHS	•									
EMHS	٠									

			AP	MCPS	21024	High School C Weighted	Credits	1 ✓	Graduation Requirement	
AP STAT	ISTICS			Course Code	3192A	192A Weighted ✓ Requirement Credit Type Math SOL Test(s) Required esponds to the syllabus of the College Board Advanced Placement a one-semester, introductory, non-calculus-based college course s and tools for collecting, analyzing, and drawing conclusions oring data, sampling and experimentation, anticipating patterns, problem solving, and writing as they build conceptual				
Grade Lev	vel	9-12	Prerequisite(s)	Algebra II						
Program f in statistic from data	or the A s. The co . There a tical infe	P Statistics of ourse introc are four the	course. The cours luces students to mes in the AP Stat	e is equival the major c tistics cours	ent to a one-sem oncepts and tools e: exploring data,	ester, introduct for collecting, a sampling and e	ory, non-calculu analyzing, and d experimentation	us-ba Irawi 1, ant	sed college cour ng conclusions icipating patterr	se
AHS	•									
BHS	•									
CHS	•									
EMHS	•	Offered in	alternating year	with AP Cor	mputer Science Pi	rinciples (Next o	offering: 2022-2	3)		

				MCPS		High School C	Credits	1	Graduation	
DE STATI	CTICC			Course	DE3192	Weighted		V	Requirement	
DESTATI	57765			Code	DESISZ	Credit Type	Math		SOL Test(s) Required	
Dual Enrolled	V		EW RIVER	NRCC Course Code(s)	MTH 245 & MTH 246	College Credi	ts	6		
Grade Leve	el	11-12	Prerequisite(s)		245, completion o For MTH 246, co					
presents ar hypothesis descriptive	n overv testing statist	iew of statis g, correlation ics, element	rse is based on NR stics, including des n, and linear regre ary probability, pr e: NRCC will not be	criptive sta ssion (Statis obability di	tistics, elementary stics I), and preser stributions, estime	probability, protection protection overview pation, hypothes	obability distrib of statistics, inc is testing, correl	utior cludii latio	ns, estimation, ng	
AHS BHS CHS EMHS		_	historical stude	ent interes	ly offered due to t, availability of ed in this course	certified staf	f, and/or curre	ent r		

SCIENCE ELECTIVES

EARTH S	CIENCE	: II		MCPS	S	High School C Weighted	redits	1	Graduation Requirement
METEOR	OLOG	(Course Code	42200	Credit Type	Earth Scienc	e	SOL Test(s) Required
Grade Leve	el	10-12	Prerequisite(s)	Earth Scie	ence l				
include the	e moven ding of c	nent of air i	rse explores earth masses, global clin currents, pressure	nate change	es, the effects of a	ir pollution, and	d weather-relate	ed pl	henomenon. An
AHS									
BHS									
CHS	•								
EMHS									

EARTH S		EII		MCPS Course	43500	High School C Weighted	credits	1	Graduation Requirement
OCEANO	OGRAPI	ΗY		Code	42500	Credit Type	Earth Scienc	e	SOL Test(s) Required
Grade Lev	vel	10-12	Prerequisite(s)	Earth Scie	ence l				
Topics that Chemistry Ocean Pro	nt will be of Sea V oduction	studied inc Vater, Atmo and Nutrier	rse explores the p lude History of Oc osphere and the C nt Cycling, Coasts, to study these to	eanograph Ceans, Oce Estuaries a	y, Navigation, Hy an Currents, Wav and Environmenta	drologic Cycle, P ves and Tides, Lif	late Tectonics, e in the Water,	Sea F Life	loor (Bathymetry) on the Seafloor,
AHS	•								
BHS	•								
CHS	•								
EMHS									

EARTH S	CIENCE	. 11		MCPS	42600	High School C Weighted	redits	1	Graduation Requirement	
ASTRON	ΟΜΥ			Course Code	42600	Credit Type	Earth Scienc	e	SOL Test(s) Required	
Grade Leve	el	10-12	Prerequisite(s)	Earth Scie	ence I and Algebra					
cosmologio	al theor	ries, our sol	lar system, and re	cent discov	se. Topics that wil eries. Laboratory n, there will be op	investigations v	vill include topic	cs su	ch as stellar	
AHS	•									
BHS										
CHS	•									
EMHS										

				MCPS		High School C Weighted	redits	1	Graduation Requirement	
ENVIRO	NMENT	AL SCIEN	ICE	Course Code	42700	Credit Type	Science (Earth Scienc or Biology)		SOL Test(s) Required	
Grade Lev	vel	9-12	Prerequisite(s)							
laboratory watershee to diverse opportuni	/ experie d educati points o	nces and fi onal experi	and legal and civic eld work that inclu iences). Students v ut the managemer	ide descripti will be provi	ive and compar ded with oppor	ative studies as w tunities to engag	vell as investigat e the communit	tion ty, as	(i.e. meaningful s well as be expos	
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

			AP	MCPS		High School C	Credits	2 ✓	Graduation	
AP ENVI	RONM	ENTAL SC		Course Code	4270A	Weighted Credit Type	Science (Earth Scienc		Requirement SOL Test(s) Required	
Grade Lev	el	10-12	Prerequisite(s)	•	Earth Science, Biontly with AP Enviro	•.	mistry I (Chemis	,		
Program fo college cou methodolo analyze na examine al geology, b	or the Al urse in e ogies rec tural an Iternativ iology, e	P Environm nvironmen quired to ur d human-m ve solutions	ental Science count tal science, throug aderstand the intenade environment for resolving or p tal studies, enviro	rse. The co gh which st rrelationsh al problem reventing t	se corresponds to urse is designed to udents engage wit ips of the natural s, evaluate the rela hem. Environmen ience, chemistry, a	be the equival h the scientific world. The cour ative risks associ tal Science is in	lent of a one-ser principles, conc rse requires that ciated with these terdisciplinary, e	mest epts stud e pro embi	ter, introductory ,, and dents identify an oblems, and racing topics fron	d
AHS										
BHS	٠									
CHS	٠									
EMHS										

BIOLOG	Y II			MCPS	42200	High School C Weighted	redits	1	Graduation Requirement	
BOTANY	/zool	OGY		Course Code	43200	Credit Type	Science (Biology)		SOL Test(s) Required	
Grade Lev	el	10-12	Prerequisite(s)	Biology I						
dilemmas	that con	front our a	ving organisms an ge, the need for cr cs may include bot	ritical thinki	ng and means by	which one may			•	
AHS	•									
BHS	•									
CHS	•									
EMHS										

				MCPS		High School C	redits	1	Graduation	
BIOLOG	/ II			Course	43300	Weighted			Requirement	
ANATON	/IY/PH	SIOLOG	(Code	43300	Credit Type	Science		SOL Test(s)	
	-			Coue		credit Type	(Biology)		Required	
Grade Lev	el	10-12	Prerequisite(s)	Biology I						
Emphasis	will be p	laced on th	rse is designed for e structure and fu ral infections affeo	nction of th	ne major body sys	tems. Cytology	and histology o			
AHS	٠									
BHS										
CHS	•									
EMHS										

EMHS

•

				MCPS		High School C	Credits	2	Graduation
DE HUMA	N AN	ATOMY	/	Course	DE4330	Weighted		\checkmark	Requirement
PHYSIOLO	GY			Code	DL4330	Credit Type	Science		SOL Test(s)
				coue		credit rype	(Biology)		Required
Dual Enrolled	~		EW RIVER	NRCC Course Code(s)	BIO 141 & BIO 142	College Credi	ts	8	
Grade Level		11-12	Prerequisite(s)	DE Biolog	y I and Chemistry	l (can be a co-re	equisite) *		
Course Desc	ription	n: This cou	urse is based on NF	CC syllabus	for Human Anato	my and Physiol	ogy I & II. To m	eet l	NRCC requirements,
	•		ourse presents the	-					-
immunity, re reproductive communicat order to adv * In order to (see pages 9 NRCC for the	espirat e syste ion, ar vance t e enrol <u>-11</u> an is cour	ory systen m, and pro nd basic m to the BIO I in a DE co 1 <u>194-196</u> se may be	enatal developmer athematical skills. 142 portion of this ourse, students me b) in addition to su e met by any one o	iluid, electro it. Assignm Students n s course. ust meet al ccessful cou f the follow	olyte, and acid-bas lents require colleg nust complete the l admission and co mpletion of prerect ving options:	se balance, dige ge-level reading BIO 141 portion purse placemer quisite courses	estive system an g fluency, cohere on of this course at requirements	ent v ent v e wit	utrient metabolism, written :h a C or better in ablished by NRCC
		•	on of BIO 101 (DE4		•	r better, <u>OR</u>			
		_	er on NRCC's NAS	-	e Exam", <u>OR</u>				
		0,	exam score of 3 or	nigner					
	nay ca	ing with It	a fee to NRCC.						
AHS	•								
BHS	•								
CHS	•								

Offered in alternating year with DE Biology (Next offering: 2023-24)

	E BIOTECHNOLOGY			MCPS	DE43201	High School Ci Weighted	redits	1 ✓	Graduation Requirement	
DE BIOTEC				Course Code	DE43201	Credit Type	Science (Biology)	SOL Test(s) Required		
Dual Enrolled	~		EW RIVER	NRCC Course Code(s)	BIO 253	College Credit	S	3		
Grade Level		11-12	Prerequisite(s)	Biology I *		÷		•	•	

Course Description: This course is based on NRCC syllabus for Biotechnology Concepts. To meet NRCC requirements, the course explores the growing field of biotechnology ranging from basic cellular and molecular biology concepts to both basic and advanced laboratory techniques. Emphasizes the application of biotechnology to medicine, agriculture, environmental science, and forensics. Includes discussion of the business, regulatory/legal, ethical, and societal issues of this topic as well as the growing field of bioinformatics.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see <u>pages 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

AHS		
BHS		
CHS	•	
EMHS		

				MCPS		High School C	credits	1	Graduation	
BIOLOGY	<i>' </i>			Course	43201	Weighted			Requirement	
BIOTECH	NOLOG	GΥ			43201	Credit Ture	Science		SOL Test(s)	
					Credit Type	(Biology)		Required		
Grade Leve	el		Prerequisite(s)				·			
Course Des	cription	n: This cour	rse is offered as an	n advanced	biology course, fo	cusing on how t	the products of l	living	g organisms (DNA	4
	engagir	ng, relevant	dified to make nev t experience for st ny fields.		0,7				,	Jld
AHS					he offered due to					
BHS					ly offered due to	1 1				
CHS					t, availability of					
EMHS			Students	s intereste	d in this course	snoula see the	eir school coun	selo	or.	

BIOLOG	YII			MCPS	12100	High School C Weighted	redits	1	Graduation Requirement
ECOLOG	Y			Course Code	43400	Credit Type	Science (Biology)		SOL Test(s) Required
Grade Lev	vel	10-12	Prerequisite(s)	Biology I					
is a more designed	in-depth for the st	study of th	he different envir le relationship bet ain more practical urse.	ween the in	teractions of the	living and non-l	iving compone	nts o	f the Earth. It's
AHS	•								
BHS	•								
CHS	•								

			14000		High School C	redits	1	Graduation	
BIOLOGY	<i>.</i>		MCPS	12500	Weighted			Requirement	
GENETICS	S		Course Code	43500	Credit Type	Science (Biology)	•	SOL Test(s) Required	
Grade Leve	el	Prerequisite(s)	Biology I						
of Mendelia large molea	an inhei cular bio	acting society through legal, e ritance, especially in regard to ology data sets and their app information. This course intr	o human tro lications to	aits and diseases biological proble	s. An integrated ap ems, and laborato	oplication is on ry techniques f	met	hods for analyzin	
AHS BHS					to multiple facto	-			
CHS				- /	f certified staff, should see the				
EMHS		Students					5010	7 2 0	

BIOLOG	Y II			MCPS Course	43202	High School Cr Weighted	edits	1	Graduation Requirement
BIOETHI	ETHICS Code Credit Type Science (Biology)				SOL Test(s) Required				
Grade Lev	vel	10-12	Prerequisite(s)	Biology I					
examinati reproduct	on. Vario	ous topics s	-	gineering, st	em cell researc	pics in Biology and h, genetic testing a	•.		•
AHS									
BHS									
CHS	•								

			A P	MCPS		High School C Weighted	Credits	2 ✓	Graduation Requirement	
AP BIOL	JGY			Course Code	4370A	4370A Credit Type		1	SOL Test(s) Required	
Grade Lev	el	10-12	Prerequisite(s)	Biology I	and Chemistry I (C	hemistry may b	e taken concuri	rentl	y with AP Biology	y)
Program fo understan energy and	or the AF ding of b d commu	P Biology co biology thro unication, g	ourse. The course ough inquiry-based genetics, informati	is an introd investigat on transfer	se corresponds to ductory college-lev ions as they explo r, ecology, and intents nts with opportun	vel biology cour re the following eractions. Requi	se. Students cul g topics: evolutio ired hands-on la	tivat on, c abora	e their ellular processes	
AHS										
BHS	•	This cours	his course is only offered as AP Biology at BHS at this time.							
CHS										
EMHS										

DE/AP BIOLOGY		4	AP		AP MCPS Course DE4700A		High School Credits Weighted		Graduation Requirement
DE/AF BIOL	.00	T			DL4700A	Credit Type	Science (Biology)		SOL Test(s) Required
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	BIO 101 & BIO 102	College Credit	ts	8	TRANSFER VIRGINIA
Grade Level	Grade Level 10-12 Prerequisite(s) Biology I and Chemistry I (Chemistry may be taken concurrently with DE Biology					y with DE Biology)			

Course Description: See course description for AP Biology (4700A).

This course is also based on NRCC syllabi for General Biology I and General Biology II. To meet NRCC requirements, the **BIO 101** portion of the course focuses on biological processes with a chemical foundation, including macromolecules, cellular structure, metabolism, and genetics in an evolutionary context. Explores the core concepts of evolution; structure and function; information flow, storage and exchange; pathways and transformations of energy and matter; and systems biology, as well as emphasizes the process of science, interdisciplinary approach, and relevance of biology to society. The **BIO 102** portion of the course focuses on biological processes with a chemical foundation, including macromolecules, cellular structure, metabolism, and genetics in an evolutionary context. Explores the core concepts of evolution; information flow, storage and exchange; pathways and transformation; structure and function; information flow, storage and exchange; needed to a concepts of evolution; structure and function; information flow, storage and exchange; pathways and transformations of energy and matter; and systems biology, as well as emphasizes the process of science, interdisciplinary approach, and relevance of biology to society. Assignments require college-level reading fluency, coherent written communication, and basic mathematical skills. **Students must complete the BIO 101 portion of this course with a D or better in order to advance to the BIO 102 portion of this course.**

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

AHS	•	
BHS	٠	Also may be offered as AP Biology (based on the availability of qualified staff at each high school who have the
CHS	٠	necessary credentials to teach dual-enrolled Biology).
EMHS	•	

			MCPS		High School C	Credits	1	Graduation	
CHEMISTRY I			Course	44100	Weighted			Requirement	
			Code	44100	Credit Type	Science		SOL Test(s)	\checkmark
			coue		credit Type	(Chemistry))	Required	Ť
Grade Level	10-12	Prerequisite(s)	Math cou	rses through Alge	bra II or taking	Algebra II concu	rren	tly.	
Course Description	ourse Description: This course involves a study of the concepts of chemistry, which are central to an understanding of the								
physical and chemical properties of matter. Topics include atomic structure, bonding, the Periodic Table, chemical composition chemical equations, Thermodynamics and the properties of acids, bases, and salts. Laboratory work is designed to illustrate basic laws of chemistry.							•		
CHEMISTRY I HONORS	4410H	displayed excelle	ence in prev	e Chemistry I curri vious science cour re rigorous and ac	ses and are eag	er to put forth t)
AHS •									
BHS •									
CHS •	The hono	e honors-level course is not offered at CHS.							
EMHS •	The hono	The honors-level course is not offered at EMHS.							

CHENNIC.				MCPS Course 44200		High School C Weighted	credits	1	Graduation Requirement
CHEIVIIS				Code	44200	Credit Type	Science (Chemistry)		SOL Test(s) Required
Grade Level 11-12 Prerequisite(s) Successful completion of Algebra II & Chemistry I.									
	• •	•	rovided with em applications of sto	•	• •		• •	areas	s of focus include
AHS	•								
BHS	•	1							
CHS	•								
CIIS									

			AP	MCPS		High School C Weighted	Credits	2 ✓	Graduation Requirement	
AP CHEN	1ISTRY			Course Code	4470A	Credit Type	Science (Chemistry))	SOL Test(s) Required	
Grade Lev	el	10-12	Prerequisite(s)	Successfu	ll completion of Al	gebra II & Chen	nistry I.			
Program for course wo explore to	or the AF rk in che pics such	P Chemistry mistry. Stu n as: atomic	course. The courd dents cultivate th structure, interm	rse provide eir underst tolecular fo	se corresponds to s students with a c anding of chemist prces and bonding, on laboratory inve	college-level fou ry through inqu chemical react	undation to sup iry-based invest ions, kinetics, th	port tigati nerm	future advanced ions, as they odynamics, and	
AHS	•									
BHS		This course is offered only as DE/AP Chemistry at BHS at this time.								
CHS		This cours	se is offered only a	as DE/AP Cł	nemistry at CHS at	CHS at this time.				
EMHS										

DE/AP CHEMISTRY		MCPS Course	DE4470A	High School Credits Weighted		2 √	Graduation Requirement	~		
DE/AF CHE	1113	INI	4 1	Code	DL4470A	Credit Type	Science (Chemistry))	SOL Test(s) Required	
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	CHM 111 & CHM 112	College Credit	ts	6	TRANSFER VIRGINIA	
Grade Level		10-12	Prerequisite(s)	iisite(s) Successful completion of Algebra II & Chemistry I *						

Course Description: See course description for AP Chemistry (4470A).

This course is also based on NRCC syllabi for General Chemistry I and General Chemistry II. To meet NRCC requirements, the course explores the fundamental laws, theories, and mathematical concepts of chemistry.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

NOTE: This course is designed primarily for science and engineering majors and requires a strong background in mathematics. Students must complete the CHM 111 portion of this course with a C or better in order to advance to the CHM 112 portion of this course

	This course is only offered as AP Chemistry at AHS at this time.
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	•

There are <u>not</u> two different groups of students (DE and AP) within a DE/AP course. All students in this combined course will be required to enroll as an NRCC student and must be registered for the corresponding NRCC course(s) by the end of the drop/add period established by NRCC. *** In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see <u>pages 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.**

DE/AP courses are taught by MCPS high school faculty who have met both the qualifications to teach at the college level and to teach the AP course. The content of combined DE/AP courses will include all topics from the syllabus of the corresponding NRCC course(s) as well as topics from the College Board Advanced Placement Program for the AP course necessary for students to be prepared for the corresponding AP exam. Upon successful completion of a DE/AP course, students will receive college credit from NRCC and may choose to take the AP exam, if desired.

	-			MCPS		High School C Weighted	redits	1	Graduation Requirement	
PHYSICS				Course Code	45100	Credit Type	Science (Physics)		SOL Test(s) Required	
Grade Leve	el	10-12	Prerequisite(s)	Successfu	ssful completion of Algebra II.					
solving and as follows:	l using r motion	nath to illu of objects,	strate the concept collisions of objec	s, math ski ts, forces c	luctory ideals in cl lls are particularly if nature, sound ar rect of class is hear	important. Spend Ind light waves,	ecifically, the ph basic optics, ele	ysics ctric	topics covered	
AHS	٠									
BHS	•									
CHS	•									
EMHS	٠									

AP PHYS	ICS C:	MECHAN	ics, AP	MCPS	4574 4	High School C Weighted	Credits	2 √	Graduation Requirement	
ELECTRIC	XITY &	MAGNET	ISM	Course Code	4571A	Credit Type	Science (Physi	cs)	SOL Test(s)	
				Coue		Credit Type	Science Elective		Required	
Grade Leve	el	10-12	Prerequisite(s)	Calculus	or taking Calculus	s concurrently				
Grade Level10-12Prerequisite(s)Calculus or taking Calculus concurrentlyAP Physics C: Mechanics is a half-year course equivalent to a semester-long, introductory calculus-based college course. The content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program for the AP Physics C: Mechanics course. It covers kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation.AP Physics C: Electricity and Magnetism is a half-year course that follows Physics C: Mechanics. The content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program for the AP Physics C: Electricity and Magnetism course. It is equivalent to a semester-long, introductory calculus-based college physics course, especially appropriate for students planning to specialize or major in the physical sciences or engineering. The course explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus is used throughout the course. The course includes a hands-on laboratory component comparable to a semester-long introductory college-level physics laboratory. Students ask questions, make observations and predictions, design experiments, analyze data, and construct arguments in a collaborative setting, where they direct and monitor their progress.							cs se It nd ne			
AHS										
BHS	•									
CHS										
EMHS										

	DE/AP PHYSICS		MCPS Course	DE4571A	High School Credits Weighted		2 ✓	Graduation Requirement		
	5105				DL4371A	Credit Type Science (Physics)			SOL Test(s) Required	
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	PHY 201 & PHY 202	College Credit	S	8		
Grade Level 10-12 Prerequisite(s)			Calculus or taking Calculus concurrently *							

Course Description: See course description for AP Physics (4571A).

This course is also based on NRCC syllabi for General College Physics I and General College Physics II. To meet NRCC requirements, the course teaches fundamental principles of physics. It covers mechanics, thermodynamics, wave phenomena, electricity and magnetism, and selected topics in modern physics. **Students must complete the PHY 201 portion of this course with a D or better in order to advance to the PHY 202 portion of this course.**

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

AHS	•	
BHS		
CHS	•	
EMHS		
There are	not two	different groups of students (DE and AP) within a DE/AP course. All students in this combined course will be

There are <u>not</u> two different groups of students (DE and AP) within a DE/AP course. All students in this combined course will be required to enroll as an NRCC student and must be registered for the corresponding NRCC course(s) by the end of the drop/add period established by NRCC. ***** In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

DE/AP courses are taught by MCPS high school faculty who have met both the qualifications to teach at the college level and to teach the AP course. The content of combined DE/AP courses will include all topics from the syllabus of the corresponding NRCC course(s) as well as topics from the College Board Advanced Placement Program for the AP course necessary for students to be prepared for the corresponding AP exam. Upon successful completion of a DE/AP course, students will receive college credit from NRCC and may choose to take the AP exam, if desired.

			Seemor's STEA			High School C	redits	1	Graduation
PRINCIP	LES OF			MCPS	98110	Weighted			Requirement
TECHNO			R Manufacture	Course Code		Credit Type	CTE Elective	/e	SOL Test(s) Required
Grade Lev	el	10-12	Prerequisite(s)	Algebra I					
credit and	one CTI	elective c	ciples of Technolo redit (98110 and 9 rder to receive lab	98120 const	itute a CTE com	pleter sequence)			• •
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

	PRINCIPLES OF TECHNOLOGY II /		MCPS Course 98120		High School C Weighted	Credits	1	Graduation Requirement		
		•		Code	98120	Credit Type	Science		SOL Test(s)	
APPLIED	PH 131	13		couc		cicult type	(Physics)		Required	
Grade Leve	Grade Level 10-12 Prerequisite(s)				of Technology I, A	Algebra I, and o	ne other laborat	tory	science course.	
radiation, c fluid, electr technical p Students w credit and courses in t	optical s rical, an rinciples /ho com one CTE	ystems, and d thermal s s provides a plete Prind E elective c	d time constants, systems in high-teo a foundation for fu ciples of Technolo redit (98110 and 9	emphasizin chnology ec urther educ gy I and Pr 9 8120 cons	al principles: mom g how each princi quipment. This "pr ation and career f inciples of Techno titute a CTE comp fence (Physics) cre	ple plays a unif inciples and sys lexibility as tech logy II may use leter sequence	ying role in the o stems" approach nnology and tec a these courses t	opera h to s hnica to sa	ation of mechani studying these al systems advan tisfy one Physics	ice.
AHS	•									
BHS	•									
CHS •										
EMHS	MHS •									

				N4606		High School C	Credits	1	Graduation
VIRGINI	A SPAC	E COAST	SCHOLARS	MCPS Course	4703V	Weighted			Requirement
(VSCS) V	IRTUA	L		Code 4	47030	Credit Type			SOL Test(s) Required
Grade Lev	el	10	Prerequisite(s)						
This dynar who posse offers. Th (STEM) lea invited to will learn the http://vsg	nic (and ess techr e progra arning ex attend a first-han <u>c.odu.ec</u>	FREE) prog nical and/or m features perience fe seven-day d from NAS	ram, designed by scientific interest two key elements eaturing five modu	the Virginia is and are m s. The first i ules. Upon o er Academ nd their par	a Space Grant Cor notivated to learn s a dynamic on-lin completion of the y at NASA Wallop tners about the la	nsortium (VSGC) about the man ne science, tech online program s Flight Facility o	, inspires studer y different oppo nology, enginee n, top performin on Wallops Islan	nts ortur ring g scl id, V	, and mathematics nolars may be A, where scholars
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

VIRGINIA AEROSPACE SCIENCE &			MCPS Course	DE4701V	High School Credits Weighted		Graduation Requirement	
TECHNOLOGY SCHOLARS PROGRAM (VASTS) VIRTUAL		Code	Credit Type			SOL Test(s) Required		
Grade Level	11-12	Prerequisite(s)						

Course Description: The Virginia Aerospace Science and Technology Scholars (VASTS) program is an interactive on-line science, technology, engineering and mathematics learning experience, highlighted by a seven-day residential summer academy at NASA Langley Research Center in Hampton, Virginia. Students selected to participate in the program are immersed in NASA-related research through interaction with scientists, engineers and technologists. The program is a partnership between the Virginia Space Grant Consortium and NASA Langley Research Center with assistance from the Virginia Department of Education. NASA Johnson Space Center is providing the online learning modules. http://vsgc.odu.edu/vasts/

- This course is only offered virtually.
- Students participating in the distance learning coursework will receive one (1) weighted science elective credit.
- Students may receive up to four (4) college credits, at no cost to them, from Thomas Nelson Community College depending upon their successful completion of the online course and Summer Academy program.
- While there is no charge for this course, any travel or internet expenses are the responsibility of the student.

AHS	•	
BHS	٠	
CHS	•	
EMHS	•	

VIRGINIA EARTH SYSTEM SCIENCE SCHOLARS PROGRAM (VESSS) VIRTUAL			MCPS Course DE Code	DE4702V	High School Credits Weighted		Graduation Requirement		
				DE4702V	Credit Type		SOL Test(s) Required		
Grade Level	11-12	Prerequisite(s)			- ·		· ·		
Course Descriptions. The Minericia Forth Contena Colored Colored Colored (MFCCCC) and ensure is an interaction on the ensured to the standard									

Course Description: The Virginia Earth System Science Scholars (VESSS) program is an interactive on-line science, technology, engineering and mathematics learning experience, highlighted by a seven-day residential summer academy at NASA Langley Research Center in Hampton, Virginia. Students selected to participate in the program are immersed in NASA-related research through interaction with scientists, engineers and technologists. The program is a partnership between the Virginia Space Grant Consortium and NASA Langley Research Center with assistance from Hampton University. http://vsgc.odu.edu/vesss/

- This course is only offered virtually
- Students participating in the distance learning coursework will receive one (1) weighted science elective credit.
- Students may receive up to four (4) college credits, at no cost to them, from Thomas Nelson Community College depending upon their successful completion of the online course and Summer Academy program.

• While there is no charge for this course, any travel or internet expenses are the responsibility of the student.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

	ART FOUNDATIONS I					High School C	redits	1	Graduation	
ART FO	ART FOUNDATIONS I			SI Course 91200 Weighted					Requirement	
						Credit Type	Fine Arts			
Grade Lev	/el	9-12	Prerequisite(s)			•				
will be ins	truction	in drawing	explore art as it rela , painting, ceramic I with an emphasis	s, printmaki	ing, and sculptu	re using a variety	of both 2-D an	d 3-D	D media. Art style	
AHS	•									
BHS	•									
CHS	•									
EMHS	MHS •									

				MCPS		High School C	credits	1	Graduation	
ART II IN	TERME	DIATE		Course	91300	Weighted	1		Requirement	
						Credit Type	Fine Arts			
Grade Lev	el	9-12	Prerequisite(s)	•	lents who have ha t test and present		-		•	s)
Course Description: The focus of this course is for the student to obtain an understanding of art by incorporating the elements and principles of design in their work. Through the study and exploration of art, the student will be motivated to think about visual experiences in the past and present. Emphasis is placed on the further development of the student's drawing and design skills through a variety of 2-D and 3-D media and is designed to expand the student's knowledge of drawing, painting, sculpture, and ceramics while introducing jewelry making, graphics, and research into art history.									sual	
AHS	•									
BHS	BHS •									
CHS	•									
EMHS	•									

	RT III ADVANCED INTERMEDIATE			MCPS Course	91400	High School Cr Weighted	edits	1 Graduation Requirement		
					01.00	Credit Type	Fine Arts	1		
Grade Lev	el	10-12	Prerequisite(s)	Art II						
instructor students a	may ma ire allow	ke exceptio ved more tir	d Art is a course t ons for students w ne for pursuing in a solving will be ma	ho have cor dividual pro	mpleted just 1 ye	ar and show both	interest and t	alen	t.) Advanced	/ of
AHS	•									
BHS		Students	udents at BHS interested in taking Art III should consider taking Drawing, Painting, or Sculpture.							
CHS	•									
EMHS	•									

				MCPS	5	High School C	redits	1	Graduation	
ART IV A	ART IV ADVANCED			Course	91450	Weighted			Requirement	
						Credit Type	Fine Arts			
Grade Level 11-12 Prerequisite(s) Portfolio Review					•					
	•		rse involves intens ependent researc		•	nced skills in thei	r chosen media	. Ad	vanced critiques,	,
AHS	•									
BHS		Students	at BHS interested	in taking Art	IV should cons	ider taking Drawi	ng, Painting, or	Scul	pture.	
CHS	•									
EMHS	•									

	ART V PORTFOLIO PREPARATION			MCPS		High School C	redits	1	Graduation	
ART V PC				Course	91470	Weighted			Requirement	
						Credit Type	Fine Arts			
Grade Leve	el	12	Prerequisite(s)	Portfolio	Review or Teacher	r Recommendat	ion			
will further	develo	p higher lev	-	duction est	wledge and experi hetics and criticisr procedures.					
AHS	•									
BHS	•									
CHS •										
EMHS	•									

				MCPS		High School C	redits	1	Graduation	
PAINTING	G			Course	91401		Requirement			
				Code		Credit Type	Fine Arts			
Grade Leve	el	10-12	Prerequisite(s)	Art I & Art	tll					
exceptions	rse Description: This course follows successful completion of two (2) years of art foundations. (The instructor may make ptions for students who show both interest and talent.) It is intended for advanced art students to have more time to pursue vidual projects and exploration of painting techniques. A more intense study of art history and visual problem solving will be le.									
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

				MCPS		High School C	redits	1	Graduation	
DRAWIN	G			Course	91402	Weighted			Requirement	
				Code		Credit Type	Fine Arts			
Grade Leve	el	10-12	Prerequisite(s)	Art I & Ar	tll					
exceptions	for stuc	lents who s	rse follows succes show both interest ation of drawing t	t and talent	.) It is intended for	or advanced art	students to have	/e m	ore time to purs	
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

SCULPTI	ULPTURE			MCPS Course	91403	High School C Weighted	redits	1	Graduation Requirement
Code Credit Type Fine Arts									
Grade Lev	evel 10-12 Prerequisite(s) Art I & Art II					· · · · · · · · · · · · · · · · · · ·			
									ore time to pursue lem solving will be
AHS									
BHS	•								
CHS	•								
EMHS									

CERAMIC	MCPSHigh School Credits1GraduationCERAMICS ICourse91750WeightedIRequirement									
				Code		Credit Type	Fine Arts			
Grade Leve	el	9-12	Prerequisite(s)							
explore the technique,	e proces pinch m	cription: This course is design as an entry-level art class with a focus on the investigation of Ceramics. Students will process of hand building and wheel throwing (if supplies allow). There will be instruction in slab technique, coil pinch method, glaze application, firing techniques, history of ceramics, and related artist studies. Art critiques will be l and written), to develop a visual appreciation for one's own art and for the art of others.								
AHS	•									
BHS	•									
CHS										
EMHS	•									

				MCPS		High School C	redits	1	Graduation	
CERAMIC	S II			Course	91760	Weighted			Requirement	
				Code		Credit Type	Fine Arts			
Grade Leve	el	10-12	Prerequisite(s)	Ceramics						
understand throwing te studied to	rse Description: This course is a continuation of Ceramics I. The focus of this course is for the student to obtain a greater erstanding and to increase their knowledge of Ceramics. Further practice will help to develop their hand building and wheel wing techniques in the quest to become a master at the craft. Art History, historical Potters and Cultural Knowledge will be ied to further the depth of their understanding and enhance their mastery. Art critiques will be held (verbal and written), to elop a higher level of visual appreciation for one's own art and for the art of others.									
AHS	•									
BHS	•									
CHS										
EMHS	•									

MCPS High School Credits						1	Graduation			
CERAMIC	CS III			Course	w	/eighted			Requirement	
				Code	Cr	redit Type	Fine Arts			
Grade Leve	el	10-12	Prerequisite(s)	Ceramics II						
Course Des well as lear	-			tinuation of Ceramics II, furthering students' understanding and knowledge of Ceramic						s as
AHS	٠									
BHS	•									
CHS										
EMHS	٠									

	MCPS		High School C	redits	1	Graduation	
RAPHY I	Course	91900	Weighted			Requirement	
	Code		Credit Type	Fine Arts			
el 9-12 Prerequisite(s)	Art I (requ	uired), Art 2 (recor	mmended)				
scription: This course This course in hic compositions through manipulation reative communication is emphasize ignificant movements, before learning utter, and aperture manipulation, an the course, students will learn to make ate ideas, feelings, or values related hic images, works of other students, eir work. Students will be expected ased on practical applications of the portfolio for assessment and exhibition	ion of the fu ed throughong and enha d computer e meaningfu to the them and those b to demonsi e Elements	undamental proce out the course. Stu- incing photo comp digital manipulat ul visual statemen ne of a sense of pla by professional ph trate technical ur	sses of artistic e udents will explo- position skills in- ion of color and ts with an empl ace. Students w otographers for iderstanding ar	expression. Stud ore the history of cluding image m I black and white nasis on persona ill also engage in r the purpose of nd creativity thr	ent of ph anip e ph al cre n crif refle oug	self-expression as notography, pulation light otographic image eative expression tiques of their ecting on and h a variety of	5.
•							
4 I							

		-		MCPS		High School C	redits	1	Graduation	
AP STUD				Course	9148A	Weighted		\checkmark	Requirement	
2D DESIG	NI			Code		Credit Type	Fine Arts			
Grade Lev	el	11-12	Prerequisite(s)	Portfolio	Review or Teacher	Recommendat	ion		•	
dimension concentrat To possibly	al media e on 2-I receive	a, students D design. I e college cre	e credit. Having a will use visual pro n order to receive edit, the student n Art requires a more	blem solvin an AP weig nust submit	g skills to further thed credit; the st their portfolio to	explore Color and udent must sat the College boa	nd Design, Draw isfactorily comp ard and pay the	ving, plete asso	Sculpture and the AP portfolio. ociated fee.	
AHS	•									
BHS	•									
CHS	•									
EMHS										

				MCPS		High School C	redits	1	Graduation	
AP STUDI	O ART	•	4 1	Course	9149A	Weighted		\checkmark	Requirement	
3D DESIG	N			Code		Credit Type Fine Arts				
Grade Leve	el 👘	11-12	Prerequisite(s)	Portfolio	Review or Teachei	her Recommendation				
school and dimensiona concentrate To possibly	possibly al media e on 3-E receive	y get colleg , students) design. I e college cre	e credit. Having a will use visual pro n order to receive edit, the student r	chieved trai blem solvin an AP weig nust submit	ighly motivated st ining in basic knov og skills to further ghted credit; the si t their portfolio to t commitment of t	vledge and expe explore Color ar tudent must sat the College Boa	erience of two a nd Design, Draw isfactorily comp ard and pay the	and/o ving, plete asso	or three Sculpture and the AP portfolio ociated fee.	-
AHS	•									
BHS	•									
CHS	•									
EMHS										

AP STUD			AP	MCPS Course	9150A	High School C Weighted	redits	1 ✓	Graduation Requirement	
DRAWIN	g por	IFOLIO		Code		Credit Type	Fine Arts			
Grade Leve	el	11-12	Prerequisite(s)	Teacher a	pproval					
school and dimensiona concentrat portfolio.	Course Description: The AP Studio Art Program enables highly motivated students to do college level work in art while still in high school and possibly get college credit. Having achieved training in basic knowledge and experience of two and/or three dimensional media, students will use visual problem solving skills to further explore Color and Design, Drawing, Sculpture and concentrate on their drawing portfolio. In order to receive an AP weighted credit; the student must satisfactorily complete the AP portfolio. To possibly receive college credit, the student must submit their portfolio to the College Board and pay the associated fee. Advanced Placement Studio Art requires a more significant commitment of time and effort than other art courses.									
AHS	•									
BHS	•									
CHS	•									
EMHS										

				MCPS		High School C	redits	1	Graduation	
DE ART/MU	1210	APPRECI	ATION	Course	DE9197V	Weighted		\checkmark	Requirement	
VIRTUAL				Code		Credit Type	Fine Arts			
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	ART 100 & MUS 121	College Credi	ts	6		
Grade Level		11-12	Prerequisite(s)	See Below	v *					
the ART 100 p sculpture, pho	ortic otogr	on of the co aphy, print	urse introduces a making, and paint	rt from prel ing techniq	or Art Appreciatio historic times to thues, as well as hig	ne present day. hlights major a	It describes arc rtists and key co	hiteo ntril	tural styles, outions from glo	-

and Western culture. Content is covered chronologically and/or thematically. The **MUS 121** portion of the course explores the language of music through an introduction to basic elements, forms and styles across time. It acquaints students with composers' lives and influential creative individualities, discovering representative works and milestones in western society, as well as develops techniques for listening analytically and critically. The historical development and significance of art music are explored within the context of evolving societal structures.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see <u>pages 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

Inteel		
AHS	•	
BHS	٠	
CHS	•	
EMHS	٠	

		MCPS		High School C	redits	1	Graduation	
MUSIC HISTOR	Y/LITERATURE	Course	92210	Weighted			Requirement	
		Code		Fine Arts				
Grade Level	Prerequisite(s)							
Course Descriptio	n: This is a non-performance	course for	students intereste	ed in music. It r	equires no prer	equi	site and is design	ied
for the student wh	no does not plan to continue	further stud	dy in music. It is n	ot a prerequisit	e for other art o	or mu	usic courses. The	5
student will study	music as it relates to his/her	personal ex	perience and env	ironment. Stud	ents will study a	all pe	eriods of music fr	om
Medieval to Rock.	Instruction will include com	paring style	s and elements of	music with an e	emphasis on de	velo	ping listening skil	ls.
AHS		Not ourse	uthe offered due t	- veriltin le ferete				
BHS	bistoriarlat		ntly offered due to					
CHS			est, availability of ted in this course s				urces.	
EMHS	Stude	nts mileres	teu m this course s	snouiu see their	school course	or.		

				MCPS		High School C	redits	1	Graduation	
MUSIC T	HEORY	,		Course	92250	Weighted			Requirement	
				Code		Credit Type	Fine Arts			
Grade Leve	el	9-12	Prerequisite(s)	Must be a	ble to read music					
Course De	scription	n: This cou	rse provides stude	ents with ar	in-depth study o	f the materials a	and structures c	of mu	usic including: for	rm
and analys	is, basic	harmony a	nd theory, and co	mpositiona	l techniques. Stu	dents will be giv	ven the opportu	inity	to compose.	
AHS										
BHS	•									
CHS	•									
EMHS										

				MCPS		High School Cr	edits	1	Graduation	
BEGINNI	NG BA	ND		Course	92320	Weighted			Requirement	
				Code		Credit Type	Fine Arts			
Grade Leve	el	9-12	Prerequisite(s)							
instrument	ts. Emp	hasis is plac	students who are ced on the basic el studies in music.	ements of i	nstrumental perf	ormance. This cl	ass is designed	l for	those students v	
AHS										
BHS										
CHS										
EMHS	•									

				MCPS		High School C	Credits	1	Graduation	
INTERME	DIATE	BAND		Course	92330	Weighted			Requirement	
				Code		Credit Type	Fine Arts			
Grade Leve	el	9-12	Prerequisite(s)	Two years	s of instrumental r	nusic				
					oup composed of rumental experier					Í
AHS										
BHS	•				up composed mai mental experienc					
СНЅ	•		ncert festival. Ma ire covered in the		red in concert bar	nd include conc	ert literature, ba	asic	theory, and histo	ry
EMHS	•	open to a their mide to modern transposit concerts e necessary	Il students who ha dle school director n popular music a tion, and addition each school year, y	ave at least r. Music w nd marchin al music the various com The student	up composed of ir two (2) years of ir ill range widely in g music. Addition eory may be includ npetitions, footbal t is required to att e is required.	nstrumental exp style from class al materials and ded as appropri I games, parade	perience or the r sics and serious d topics such as ate. Performan es, and other ac	ecor conc mine ces i tiviti	mmendation of cert band literatu or scales, nclude several es deemed	

				MCPS		High School C	Credits	1	Graduation
ADVAN	CED BA	ND		Course	92340	Weighted			Requirement
				Code		Credit Type	Fine Arts		
Grade Lev	vel	9-12	Prerequisite(s)						· · · ·
Course De	escriptio	n:							
AHS	•	to all stud middle so modern p transposi concerts necessar	dents who have at hool director. Mo popular music and tion, and addition each school year,	least two (2 usic will ran marching m al music the various com The student	 years of instru- ge widely in sty nusic. Additionation ory may be incl petitions, footh is required to a 	umental experient le from classics ar al materials and to uded as appropris pall games, parade	ce or the recom nd serious conce opics such as mi ate. Performan es, and other ac	imer ert b inor ices i tiviti	and literature to scales, include several
BHS	•		site: Intermediate	•					
СНЅ	•	Reading musician standard	site: Audition only Students may be ship techniques wi of musical excelle and any other sche	admitted to II be explorence. Partici	this class only t ed in a full ense pation and atte	through a success mble setting. Stu ndance is require	ful audition. M dents will be he d for District Ba	ore eld to ind F	advanced o the highest estival, the spring
EMHS	•	Advanced to all stud middle so modern p transposi concerts necessar	d Band is a perforn dents who have at hool director. Mo oopular music and tion, and addition each school year,	ning group o least two (2 usic will ran marching m al music the various com The student	composed of ins 2) years of instru- ge widely in sty- nusic. Additiona- ory may be incl petitions, footh is required to a	strumental studer umental experien- le from classics ar al materials and to uded as appropris pall games, parade	nts. Membershi ce or the recom nd serious conce opics such as mi ate. Performan es, and other ac	ip in Imer ert b inor Ices i	this group is open ndation of their and literature to scales, include several

				MCPS		High School C	redits	1	Graduation	
GUITAR				Course	92450	Weighted			Requirement	
				Code		Credit Type	Fine Arts			
Grade Leve	el	9-12	Prerequisite(s)							
Course De	scriptio	n: This cou	rse is for beginning	g guitar stu	dents. No prior e	xperience is req	uired. The cour	rse c	overs basic musi	с
reading, ch	ords, m	usical term	s and symbols.							
AHS	•									
BHS										
CHS										
EMHS	•									

				MCPS		High School C	redits	1	Graduation	
			ENSEMBLE /	Course	92520	Weighted			Requirement	
PERCUSS		CHNIQU	ES	Code		Credit Type	Fine Arts			
Grade Leve	el	9-12	Prerequisite(s)	Percussio	n students OR bar	nd director's app	proval.			
be conside Symphonic	red a m Band. A	ember of tl Additionally	on Techniques is c ne Symphonic Ban v, students will be sion techniques an	d and will k required to	pe required to par participate in sch	ticipate in all co	ncerts and activ	vities	scheduled for	
AHS	•									
BHS	•									
CHS	•									
EMHS										

SMALL EN COLOR GU		-	UES	MCPS Course Code	92960	High School C Weighted Credit Type	Fine Arts	1	Graduation Requirement	
Grade Level			Prerequisite(s)	Percussion	n students OR ba	nd director's app	oroval.			
considered a	a mem	ber of the I	lard Techniques is Marching Band an . Focus of this clas	d will be rea	quired to particip	oate in all footba	ll games, compe			
AHS			N	ot currentl	v offered due t	o multiple fact	ors including			
BHS			historical stude			1 5			00000000	
CHS					- / /					
EMHS			Students	sintereste	a in this course	should see the	rir school coun	15810)г.	

PIANO L	AB I			MCPS Course	92550	High School Cr Weighted	edits	1	Graduation Requirement
				Code		Credit Type	Fine Arts		
Grade Lev	vel	9-12	Prerequisite(s)	Students s	hould have no p	previous piano exp	erience.		· · ·
Understar	nding of	piano keybo		ositive attit	ude and continu	•	• •		ique. h school and adult
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

				MCPS		High School C	redits	1	Graduation	
PIANO LA	AB II			Course	92551	Weighted			Requirement	
				Code		Credit Type	Fine Arts			
Grade Leve	2	10-12	Prerequisite(s)	Students	must have succes	sfully completed	d Unit 8 in Pianc	Lab	I with an "A"	
Grade Leve		10 12	Trefequisite(s)	average.						
Course Des	scription	n: Students	s will continue inst	ruction of p	piano technique, r	nusic theory an	d music reading	; skill	s. Students may	/ be
•		•	dition. Students au	•		•		el to :	students	
completing	g throug	h Unit 8 in	Piano Lab I. Class	size is limit	ed by the number	of available ins	truments.			
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

SMALL V		ENSEMBL	E /	MCPS Course	92800	High School C Weighted	redits	1	Graduation Requirement	
CHORALE				Code		Credit Type	Fine Arts			
Grade Leve	el	10-12	Prerequisite(s)							
	esentin	g quality pu	is a performance o Iblic performance: hniques.		•	•	•			
AHS	•	No auditi	on is necessary							
BHS	•	is a perfor presentin demonstr chosen fre	ite: One year of (rmance class who g quality public pe rating excellent vo om all major perio s. These students	se member erformance cal and cho ds. Perform	ship is strictly limi s. Students will re oral techniques. Th mances will includ	ted to students ad and sing mu e group will lea e two school co	in grades 10-12 sic with four to rn music of a m ncerts as well a	2. Sti eigh odei s oth	udents will work t part harmony, rately difficult lev ner community	on
СНЅ	•	public per excellent	ite: Audition Onlessing of the second	ents will rea echniques.	ad and sing music The group will pe	with four to eig rform music of	ht-part harmon a high difficulty	ies, o leve	demonstrating I chosen from all	-
EMHS	•									

SMALL V	OCAL	ENSEMBL	E /	MCPS Course	92802	High School C Weighted	redits	1	Graduation Requirement
MADRIG	ALS			Code		Credit Type	Fine Arts	I	
Grade Lev	el	10-12	Prerequisite(s)	One year audition.	of Chorus/Band/o	r other vocal (n	nusical) experie	nce a	and successful
concerts p vocal and	purse Description: Madrigals is strictly lim encerts plus many community performance ocal and choral techniques. Repertoire will gible to audition for Senior High District C				t will read and per mainly from the F	rform music in f Renaissance Per	four to eight pai riod. All studen	rts, ι	using advanced
AHS									
BHS	•								
CHS									
EMHS	MHS								

CRAALL VA	SMALL VOCAL ENSEMBLE / CHAMBER ENSEMBLE			MCPS		High School C	redits	1	Graduation	
			.E /	Course	92803	Weighted			Requirement	
CHAIVIBE	K ENSI	INIBLE		Code		Credit Type	Fine Arts			
Grade Leve	el 🛛	10-12	Prerequisite(s)	Audition (Only					
performan	ce class d. The s	which will student will	al ensemble is ope present quality pu l sing and read mu	Iblic perform	mances using the	best styles of m	usic literature fi	rom	major periods	
AHS	•	No auditi	on is necessary							
BHS										
CHS	•									
EMHS	EMHS									

	ALL VOCAL ENSEMBLE II			MCPS		High School Cr	edits	1	Graduation	
SMALL V	/OCAL I	ENSEMBL	EII	Course	92804	Weighted			Requirement	
				Code		Credit Type	Fine Arts			
Grade Lev	vel	10-12	Prerequisite(s)	Teacher A	pproval Required	l				
•			vork on presenting excellent vocal ar		•	s. Students will r	ead and sing m	nusic	with four to eigh	nt
AHS					•					
BHS										
CHS	•									
EMHS •										

CRAALL V			F /	MCPS		High School C	redits	1	Graduation	
SMALL V				Course	92805	Weighted			Requirement	
SWING C	HOIR			Code		Credit Type	Fine Arts			
Grade Leve	el	10-12	Prerequisite(s)						•	
Course De	rse Description:									
AHS										
BHS										
CHS										
EMHS	•	grades ni pass an a techniqu be studie music, po performa	site: Prior experie ne through twelve udition to ascertai e for the advanced ed. This performan op, jazz and Broadv ance instruction. T as to perform, and ls.	 Ninth grad n the level of l choral stud ice choir stu way. Choreo he class is p 	de students sho of performance lent, and music dies literature graphy as appr erformance ori	ould have had sign . Sight singing the theory building o from the four peri opriate for the pie ented including th	ificant participa e full vocal range n high school ch ods of music, as eces is included nree school cond	ation e, ut noru s we as a certs	in choral work a ilizing Sol Fege, a s experiences, wi Il as contemporat part of s, community	nd 1 ill

			5/	MCPS Course	92850	High School C Weighted		1	Graduation Requirement	
		1		Code		Credit Type	Fine Arts			
Grade Leve		9-12	Prerequisite(s)							
Course Des	scriptio	n:								
AHS	•	class othe will inclue may requ appropria language		desire to sir jor concert nearsals. Th chniques. F	ng and learn the b s a year, occasion e student will beg Repertoire will incl	asic concepts of al assembly pro- in to learn to re ude music from	f music. It is a po grams and/or co ad music and wi all major period	erfo omm ill sii ds, s	rmance class and unity events, and ng music using tyles, and	t d
BHS	•	class othe will inclue may requ	Concert Choir is a non-audition chorus open to any student in grades 9-12. No prerequisite is required for the class other than a genuine desire to sing and learn the basic concepts of music. It is a performance class and will include at least two major concerts a year, occasional assembly programs and/or community events, and may require some extra rehearsals. The student will begin to learn to read music and will sing music using appropriate vocal/choral techniques. Repertoire will include music from all major periods, styles, and							
CHS	٠		nts registering for	choir will b	pe placed in this c	lass until after a	auditions.			
EMHS	•	class othe will inclue may requ	Choir is a non-aud er than a genuine o de at least two ma ire some extra reh ate vocal/choral te s.	desire to sir jor concert nearsals. Th	ng and learn the b s a year, occasion e student will beg	asic concepts of al assembly prog in to learn to re	f music. It is a pe grams and/or co ad music and wi	erfo omm ill sii	rmance class and unity events, and ng music using	ł

THEATRE I	THEATRE I INTRODUCTION TO THEATRE	MCPS	14100	High School C Weighted	Credits	1	Graduation Requirement			
INTRODUC	TION	I TO THE	ATRE	Course Code	14100	Credit Type	Fine Arts		SOL Test(s) Required	
Grade Level		9-12	Prerequisite(s)	An enthus	siasm for perform	ance.				
producing, an course emph	nd per nasizes	forming th foundatio	dards for Theatre eatre. Students w nal concepts, ense of personal interes	ill analyze, i mble work	interpret, and eva	luate dramatic	literature and th	neatr	ical works. The	
AHS	•									
BHS	•									
CHS	•									
EMHS •										

	HEATRE II RAMATIC LITERATURE			MCPS	1 1 2 0 0	High School C Weighted	redits	1	Graduation Requirement
& THEAT				Course Code	14200	Credit Type	Fine Arts		SOL Test(s) Required
Grade Lev	el	10-12	Prerequisite(s)	Theatre I	or Teacher Appro	val (based on stu	udent's experie	nce)	
acquired i theatrical communic	n Theatr styles, ai ative, co	e Arts I. Thr nd historica ollaborative	dards for Theatre rough various moo Il periods. They stu , analytical, interp e and technical ro	les of expre udy and res retive, and	ession and perform pond to a variety problem-solving	mance, students of theatrical exp skills. Students e	investigate dra periences that r	imat efine	ic literature, e their
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

	IEATRE III TERMEDIATE ACTING			MCPS	14220	High School C Weighted	Credits	1	Graduation Requirement
& PLAY				Course Code	14230	Credit Type	Fine Arts		SOL Test(s) Required
Grade Lev	vel	11-12	Prerequisite(s)	Theatre I	& II or Teacher Ap	proval (based o	on student's exp	erie	nce)
acquired i theatrical communio	n Theatr styles, a cative, co	e Arts I. Thr nd historica ollaborative	rough various moo Il periods. They st , analytical, interp	des of expre udy and res pretive, and	students make us ession and perforn pond to a variety problem-solving s rmance and produ	nance, students of theatrical ex skills. Students o	s investigate dra periences that r	mati efine	c literature, e their
AHS	•								
BHS	•								
CHS	•								
EMHS									

THEATR	HEATRE IV DVANCED ACTING & DIRECTING	MCPS	14200	High School C Weighted	Credits	1	Graduation Requirement			
ADVAN	CED AC	TING & D	IRECTING	Course Code	14300	Credit Type	Fine Arts	•	SOL Test(s) Required	
Grade Lev	/el	11-12	Prerequisite(s)	Theatre II	I or Teacher Appr	oval (based on s	student's experi	ence	2)	
interest, s variety of	tudents theatric	develop and al experienc	ples learned in Th d refine creative c ces, applying their ving, and collabora	hoices for p critical thir	performance, proc nking skills. Studer	uction, and direction and direction and direction and the second	ection. They stu	dy a	nd respond to a	
AHS										
BHS	•									
CHS •										
EMHS										

TECHNIC	ECHNICAL THEATRE I	MCPS Course	14350	High School C Weighted	credits	1	Graduation Requirement			
TECHNIC				Code	14350	Credit Type	Fine Arts		SOL Test(s) Required	
Grade Lev	el	10-12	Prerequisite(s)	None (Te	acher Approval ba	ised on student'	's experience)			
production on fine art	n, and m s and ot n, and m	anagement her disciplin anagement	dards for Technica t. Students develo nes, they work ind t. Students practic	p problem- lividually ar	solving, communi nd collaboratively	cation, organiza to explore the i	itional, and mar nterrelated com	nagei npon	ment skills. Draw ents of design,	-
AHS										
BHS	•									
CHS										
EMHS										

	ECHNICAL THEATRE II					High School C	Credits	1	Graduation	
ТЕСНИІС				MCPS Course	14360	Weighted			Requirement	
TECHNIC				Code	14500	Credit Type	Fine Arts		SOL Test(s)	
				coue		creat type	THE AILS		Required	
Grade Leve	el	10-12	Prerequisite(s)	Technical	Theatre I					
design/cor stage orga	nstruction nization artistic, 1	on, lighting , technical technical, a	rse is a continuati design, sound effe direction and proc nd dramatic princ	ects, theate duction, and	r acoustics, scene d the use of comp	painting, prope	rty managemer is to support the	nt, co ese fi	stume design, unctions. Studer	
AHS										
BHS	•									
CHS										
EMHS										

	MUSICAL THEATRE		MCPS		High School C	Credits	1	Graduation		
MUSICAL	тысл	TDE		Course	14480	Weighted			Requirement	
WOSICAL		INC		Code	14460	Credit Type	Fine Arts		SOL Test(s)	
				Coue		Credit Type	Fille Alts		Required	
Grade Leve	el	10-12	Prerequisite(s)	Teacher A	Approval					
Course Des	scription	n: This cou	rse expands theat	re offerings	s by allowing stude	ents to develop	the theatrical, o	dance	e, and vocal skills	S
they need	to be su	ccessful in	musical theatre.	This course	is for students wh	o want the mus	sical experience	and	expertise rather	r
than focusi	ing on a	cting. This	course may be us	ed to fulfil	l the fine arts requ	uirement.				
AHS	•									
BHS	•									
CHS	•									
EMHS										

			1	MCPS		High School Cr	redits	1	Graduation	
		DE			14310	Weighted			Requirement	
	INCAI	RE	l l	Course Code	14310	Cradit Turca	Eino Arta	i	SOL Test(s)	
	Grade Level 9-12 Prerequisite(s)				I	Credit Type	Fine Arts	1	Required	
Grade Leve	Grade Level 9-12 Prerequisite(s)				Only					
Course Des	scriptior	1: This cou	urse is for students	participatir	ng in the VHSL O	ne Act Competitic	on.			
AHS										
BHS	•									
CHS										
EMHS										

CAREER & TECHNICAL EDUCATION ELECTIVES

Corps of Cadets

•

EMHS

CORPS OF CADETS I				MCPS Course Code	79131 (Part 1) 79132 (Part 2)	High School Credits Weighted		1	Graduation Requirement	
						Credit Type	CTE		CTE Credential Test(s) May Be Required	
Grade Leve	el	9-12	Prerequisite(s)							
Course Description: This course focuses on the development of leadership skills and communication skills, service, patriotism, discipline, physical training, and teamwork, as well as includes the fundamentals of military science. Students will also learn self-reliance and the importance of overcoming challenges. Classes will meet daily, and students wear uniforms once a week. In addition to classroom instruction, this course will include military training in activities such as marching and drilling exercises and other physical training activities. Optional after school activities include color guard, drill team, community service, and marksmanship. Junior Corps of Cadets is not affiliated with any specific branch of the U.S. military and does not require a commitment to the armed services after graduation.										
AHS	•	Corps of Cadets is offered on a semester basis. Classes will meet for 90 minutes every day for one semester.								
BHS	•	Students may choose to take the course for one semester (Part 1) or two semesters (Parts 1 & 2).								
CHS	•	Only one semester is required to move on to the next level course the following								
EMHS	٠		only one semeste	i is i equire	qui cu to more on to the next level course the following school year					

CORPS OF CADETS II				MCPS Course Code	79161 (Part 1) 79162 (Part 2)	High School Credits Weighted		1	Graduation Requirement		
						Credit Type	CTE		CTE Credential Test(s) May Be Required		
Grade Level		10-12	Prerequisite(s)	Corps of Cadets I							
discipline, phy are expected responsible for	/sical to ta or tea rps o	training, an ke on a lead aching skills f Cadets is	nd teamwork, as v dership role and b and lesson to Cor not affiliated with	vell as inclu e a model f ps of Cadet	or Corps of Cadet I students with th	ntals of military : s I students. Cor ne full support a	science. In Cor ps of Cadets II s nd oversight of	ps of stude the	f Cadets II students ents will be		
AHS BHS CHS	• • •		Students	may choose	ster basis. Classes to take the cours	e for one semes	ster or two sem	este			

Only one semester is required to move on to the next level course the following school year.

			MCPS	70191 (Dort 1)	High School Cr Weighted	edits	1	Graduation Requirement	
CORPS OF CAI	DETS III		Course Code	79181 (Part 1) 79182 (Part 2)	CTE Crodon				
Grade Level	11-12	Prerequisite(s)	Corps of	Cadets II					
discipline, physic begin to take on support and over	al training, a additional le sight of the	eadership roles incl	vell as inclu Iuding leadi or. Corps o	ides the fundame ng and teaching s f Cadets is not aff	ntals of military s tudents in the Co	science. In Corports of Cadets	ps of I cou	Cadets III students	
AHSBHSCHSEMHS	Corps		may choose	e to take the cours	se for one semes	ter or two sen	neste		

				MCPS	70201 (Dort 1)	High School Cre Weighted	dits	1	Graduation Requirement		
CORPS OI	F CADE	TS IV		Course Code	79201 (Part 1) 79202 (Part 2)	´ CTE Crodontia					
Grade Leve	el 🛛	12	Prerequisite(s)	Corps of	Cadets III						
begin to tak support and	ke on ad d oversig	ditional le ght of the	eadership roles incl	uding leadi or. Corps o	ng and teaching s f Cadets is not aff	tudents in the Cor	rps of Cadets	l cou	Cadets III students Irse with the full he U.S. military and		
AHS BHS	•	Corps				s will meet for 90 r se for one semeste	-		r for one semester.		
CHS EMHS	•		Only one semeste	•							

Agriculture

						High School Cre	edits	1	Graduation	
INTRODU				MCPS		Weighted			Requirement	
PLANT SY				Course Code	80070	Credit Type CTE Credent Credit Type CTE Test(s) May Required				
Grade Leve	21	9-10	Prerequisite(s)							
applied bot divisions of courses, stu	any, pla the pla idents v	ant propago Int systems will be expo	ation, plant care a industry. Students	nd selection s learn agric of leadership	n. Instructional c cultural mechani o and opportunit	reas of the Plant Sy ontent also include cs applicable to pla ies within student o nt Applies.	es an introduct ant systems. A	tion t s wit	to the various th all agriculture	
AHS			N	ot currentl	ly offered due t	to multiple factor	rs, including			
BHS			historical stude	nt interest	t, availability o	f certified staff, a	and/or curre	nt re	esources.	
CHS EMHS			Students	s intereste	d in this course	should see their	school coun	iselo) <i>[</i> '.	

			,	MCPS		High School Cr Weighted	edits	1	Graduation Requirement
& PRACI		AL SCIENC	Æ	Course Code	80340	Credit Type	CTE		CTE Credential Test(s) May Be Required
Grade Lev	vel	10-12	Prerequisite(s)	•					-
	-		ourse, students de nt in areas such as		-	-			ind y iever
• •			Section Enrollme			gii, greennouse o	peration, and i	luise	-
• •						gn, greennouse o		luist	-
productio	n. VDOI							iuist	-
production AHS	n. VDOI								-

GREENH			ODUCTION	MCPS		High School C Weighted	redits	1	Graduation Requirement
& MANA			Obochon	Course Code	80350	Credit Type CTE CTE Credit Test(s) N Practices Required			
Grade Leve	el	9-12	Prerequisite(s)	Horticultu	ure Sciences & Pra	ctices			
flower sho	o and ga	arden cente	er. The student wi	ll have the	enhouse crops; pr opportunity to tal OE Maximum Sec	ke the certificati	on tests for Cor		
AHS									
BHS	•								
CHS									
EMHS	•								

				MCPS		High School Cro Weighted	edits	1	Graduation Requirement
FLORICU	JLTURE			Course Code	80380	Credit Type	CTE		CTE Credential Test(s) May Be Required
Grade Lev	/el	9-12	Prerequisite(s)						·
floricultur	e indust	ries. Stude	nts will receive ins	truction and	have hands-or		design, flowe		ry-level positions in duction, selling and
AHS									
BHS									
CHS	•								
EMHS	•								

				MCPS		High School C Weighted	redits	1	Graduation Requirement
FLORAL [DESIGN	JI		Course Code	80550	Credit Type	CTE	CTE Credential Test(s) May Be Required	
Grade Leve	el	10-12	Prerequisite(s)						
popular arı	angem	ents used i	s learn design and n retail floriculture nd handling of fres	. Students v	•				
AHS	•								
BHS	٠								
CHS	•								
EMHS	•								

						High School Cr	edits	1	Graduation
				MCPS		Weighted			Requirement
LANDSCAPI	NG	1		Course Code	80360	Credit Type	CTE Credential Test(s) May Be Required		
Grade Level		10-12	Prerequisite(s)						
developing the floriculture, la	e nec ndsci	essary kno ape design,	wledge, skills, hab	its, and atti	tudes for entry-	on course. The hoi level employment ction and turf man	and advancer		assists students in in areas such as
AHS BHS CHS EMHS			historical stude	nt interest	, availability o	to multiple facto of certified staff, e should see thei	and/or curre	ent r	

					High School Cr	redits	1	Graduation
			MCPS		Weighted			Requirement
LANDSCAPING	11		Course Code	80390	Credit Type	CTE	CTE Credential Test(s) May Be Required	
Grade Level	11-12	Prerequisite(s)	Landscapir	ng I				
high-end residenti	al landscap	e designs are deve	eloped that i	ncorporate a w	n design from a his ide range of specic Enrollment Applie	alty garden sty		. Commercial and .andscape projects
AHS	_	N	ot currently	offered due	to multiple facto	ors, including	1	
BHS	4				of certified staff,			esources.
CHS				2	e should see thei			
EMHS		Students	sincerestet		e should see thei		iselu	// •

						High School C	redits	1	Graduation
INTRODU				MCPS		Weighted			Requirement
ANIMAL				Course Code	80080	Credit Type	CTE		CTE Credential Test(s) May Be Required
Grade Leve	el	9-10	Prerequisite(s)						
applicable organizatic will provide	to anim on (CTSC e experi	al systems.)) activities ential learn	n, breeding, care, i Contextual instruc will develop leade ing opportunities h local businesses	ction and st ership, inter related to s	tudent participation personal, and car students' career g	on in co-curricul eer skills. High- oals and/or inte	ar career and te quality work-ba rests, integrate	echn sed I d wi [:]	ical student earning (HQWBL) th instruction, and
AHS	•								
BHS									
CHS	•								
EMHS									

						High School C	redits	1	Graduation
				MCPS		Weighted	[Requirement
SMALL A	NIMAI	. CARE		Course Code	80830	Credit Type	CTE		CTE Credential Test(s) May Be Required
Grade Leve	el	9-12	Prerequisite(s)						
nutrition, r instruction	nanagei in the t	ment, repro ools, equip	s will learn how to oduction, evaluatio ment, and facilitie OE Maximum Sect	on, training s for small	, and when appli animal care and	cable, showmans	ship. Course co	nten	
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

				MCDC		High School Cre	dits	1	Graduation Requirement	
VETERIN	IARY S	CIENCE		MCPS Course Code	80880	Weighted Credit Type	CTE		CTE Credential Test(s) May Be Required	
Grade Lev	/el	10-12	Prerequisite(s)	Small Anim	al Care				·	
pathology	. It will	also include		nimal care in	dustry, labora	animal first aid and (tory procedures, nu	-		•.	
AHS	•									
/										
BHS	•									
	•									

FOLUNE			мсря		High School C Weighted	redits	1	Graduation Requirement	
& PRODUCTION			Course Code	80800	Credit Type	CTE		CTE Credential Test(s) May Be Required	
Grade Lev	el	9-12	Prerequisite(s)	·					
evaluation	and she	owmanship		ructional ar	eas. Course cont	tent also include		-	oduction, training, s, equipment, and
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

	DUCTION TO				High School Cr Weighted	redits	1	Graduation Requirement	
INTRODUCTION TO NATURAL RESOURCES		Course Code	80400	Credit Type	CTE		CTE Credential Test(s) May Be Required		
Grade Lev	/el	9-12	Prerequisite(s)	•					
Course De	escriptio	n: Student	s develop skills and	d knowledge	e to be good ste	wards of their nat	ural environm	ent.	This includes
knowledg conservat	e of tree ion, soil	identificat properties,	s develop skills and on and forest mea pollution control a pliment Applies.	surement a	and managemen	it, Virginia fish and	d wildlife mana		
knowledg conservat	e of tree ion, soil	identificat properties,	on and forest mea pollution control a	surement a	and managemen	it, Virginia fish and	d wildlife mana		
knowledg conservat VDOE Ma	e of tree ion, soil ximum S	identificat properties,	on and forest mea pollution control a	surement a	and managemen	it, Virginia fish and	d wildlife mana		
knowledg conservat VDOE Ma AHS	e of tree tion, soil ximum S	identificat properties,	on and forest mea pollution control a	surement a	and managemen	it, Virginia fish and	d wildlife mana		

EICHEDII	S 8. W	ILDLIFE		VILDLIFE MCPS High School Credits Weighted					1	Graduation Requirement
FISHERIES & WILDLIFE MANAGEMENT			Course Code	80410	Credit Type	CTE		CTE Credential Test(s) May Be Required		
Grade Lev	vel	9-12	Prerequisite(s)	Introducti	on to Natural Res	sources				
and aquat	ics and	of their hab	eries and Wildlife itats. Content add Icluded. VDOE Ma	ressing the	issues related to	endangered spec			agement of wildlife ons that protect	
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

						High School C	redits	1	Graduation
				MCPS		Weighted			Requirement
SMALL EI	SMALL ENGINE REPAIR I			Course Code	80820	Credit Type	CTE		CTE Credential Test(s) May Be Required
Grade Leve	el	9-12	Prerequisite(s)						
engines. Ir and disasse commonly	nstructio embly, c found c	onal topics i overhaul, ar on lawn mov	rse offers an inten nclude principles nd reassembly. Ins wers, garden tract ollment Applies.	of operation	n of gasoline and ay also include th	l diesel engines, the operation of t	tune-up and ma wo cycle and fo	ainte ur-cy	nance procedures, /cle engines
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

						High School C	redits	1	Graduation
				MCPS		Weighted			Requirement
ADVANC	ADVANCED SMALL ENGINES REPAIR		Course Code	80821	Credit Type	CTE		CTE Credential Test(s) May Be Required	
Grade Leve	el	10-12	Prerequisite(s)	Small Eng	ines Repair				
Course Des	scription	n: The Sma	ll Engine Repair II	course will	build upon basic	skills taught in S	mall Engine Rep	air I	. The student will
explore an	d discus	s in detail n	nore advanced en	gine theory	, including cleara	nces, measurem	ents, and adjus	tmei	nts. The students
will also lea	arn and	master the	Part Smart compu	uter progra	m, which is the in	dustry's standai	d software used	d to o	order and inventory
small engir	ne parts.	VDOE Ma	ximum Section Er	nrollment A	Applies.				
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

Business & Information Technology (IT)

						High School C	redits	1	Graduation	
				MCPS		Weighted			Requirement	
BUSINESS LAW			Course Code	61310	Credit Type	CTE		CTE Credential Test(s) May Be Required		
Grade Lev	el	10-12	Prerequisite(s)							
	-		s examine the four es and to business			al system. They	explore econor	nic a	and social concept	:S
AHS										
BHS	•									
CHS	•									
EMHS	•									

		_		MCPS		High School C	Credits	1	Graduation
DE BUSINE	SS N	IANAGEN	ΛENT	Course	DE6135	Weighted	1	\checkmark	Requirement
				Code		Credit Type	CTE		CTE Credential
Dual Enrolled	~		NEW RIVER Course BUS 100 College Credits 3		Test(s) May Be Required				
Grade Level		11-12	Prerequisite(s)	See Below	v *				
operations, m * In order to	 Course Description: This course is based on the NRCC syllabus for BUS 100 Introduction to Business. To meet NRCC requirements, students in this course study basic management concepts and leadership styles as they explore business ownership, planning, operations, marketing, finance, economics, communications, the global marketplace, and human relations. * In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC. 								
BUSINESS MANAGEMEI	NT	61350	This course may	be taken by	y students who ar	e not eligible to	take a dual enr	ollec	l course
AHS									
BHS	•	Only the 6	61350 course is off	fered at BH	S (NOT DE).				
		Only the 61350 course is offered at CHS (NOT DE).							
CHS	•	Unly the t	51350 course is off	fered at CH	S (NOT DE).				

		High School Credits		redits	1	Graduation				
				MCPS		Weighted			Requirement	
ACCOUNTING			Course Code	63200	Credit Type	CTE		CTE Credential Test(s) May Be Required		
Grade Leve	el	10-12	Prerequisite(s)							
analyzing t	ransacti	ions, journa	s study the basic p alizing and posting nal conduct are en	entries, pre				-		9
AHS										
BHS	•									
CHS	•									
EMHS										

			МСРЅ				edits	1	Graduation Requirement
ADVANCED ACCOUNTING		IG	Course Code	63210	Credit Type	CTE		CTE Credential Test(s) May Be Required	
Grade Lev	vel	11-12	Prerequisite(s)	Accounting					
business p	problem		financial decisions	, ,	0	more advanced ac ration is in learning	01		
QuickBoo									
QuickBoo AHS									
	•								
AHS	•								

					High School Credits Weighted		1	Graduation Requirement
OFFICE ADMINISTRATION			MCPS Course 66210 Code	66210	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Level	10-12	Prerequisite(s)						
administrative s	ipport profes	s enhance word pr ssionals. Students nt, and financial re	study office	procedures such				
AHS		87	at auroath	. offered due t	a multiple fort			
BHS				y offered due to		-		
CHS		historical stude						
EMHS		Students	ts interested in this course should see their school counselor.					

DE COMPU	TER		Server more stream	MCPS		High School C Weighted	redits	1 ✓	Graduation Requirement
INFORMAT	NFORMATION SYSTEMS		5 A Manufacture	Course Code	DE6612	Credit Type	CTE		CTE Credential
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	ITE 152	College Credi	ts	3	Test(s) May Be Required
Grade Level		9-12	Prerequisite(s)	See Below *		÷		•	•

Course Description: This course is based on the NRCC syllabus for Introduction to Digital and Information Literacy and Computer Applications. To meet NRCC requirements, students in this course will develop understanding of digital and information literacy. This course introduces basic computer concepts in hardware, software, cyber, cloud, database, and operating systems. Includes hands-on experience developing word processing, spreadsheet and presentation documents. Evaluates the reliability of sources. Covers creating a simple web page. Examines topics such as social, legal, and ethical issues.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to

	(VIRTUAL)		Same course as DE6612 except it is offered virtually. Students may complete the work outside of school hours or they may request a Study Hall through their School Counselor. Computer Information Systems is a required course to complete the NRCC AAS – Computer Science Specialization degree pathway.
COMPUTE INFORMA SYSTEMS		66120	This course may be taken by students who are not eligible to take a dual enrolled course
AHS	•		
BHS	•		
CHS	•		
EMHS	•		

			Screenor's STEAT	MCPS		High School Cr Weighted	edits	1	Graduation Requirement
		MPUTER SYSTEMS	A Manuferting	Course Code	66130	Credit Type	CTE	CTE C	
Grade Lev	/el	10-12	Prerequisite(s)	Computer	⁻ Information Syst	ems			
	-		apply problem-sol, electronic, and N	•		ons through adva	anced integrat	ed so	oftware
AHS	•								
BHS									
CHS									
EMHS									

DE DESIGN,	SN, MULTIMEDIA ECHNOLOGIES		MCPS Course	DE6630	High School Credits Weighted		1 ✓	Graduation Requirement	
& WEB TEC	HNC	DLOGIES	A CONTRACT MANUAGENER	Code	DL0030	Credit Type	CTE		CTE Credential
Dual Enrolled	~		W RIVER munity College	NRCC Course Code(s)	ITD 110	College Credit	S	3	Test(s) May Be Required
Grade Level		11-12	Prerequisite(s)	See Below *					

Course Description: This course is based on the NRCC syllabus for ITD 110 Web Page Design. To meet NRCC requirements, students work with sophisticated software to develop web sites and multimedia presentations. The software package that will be explored in this course includes Adobe Photoshop, Dreamweaver, Flash, and Fireworks. HTML/HXTML is also introduced as a means of developing web sites.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

INACC.			
WEB	MULTIMEDIA & WEB FECHNOLOGIES		This course may be taken by students who are not eligible to take a dual enrolled course
AHS	•	Both the	66300 course and the DE6630 course are offered at AHS.
BHS	•	Only the 6	6630 (Non-DE) course is offered at BHS.
CHS	•	Only the I	DE6630 course is offered at CHS.
EMHS			

ADVANC	DVANCED ESIGN, MULTIMEDIA		Concernor's STEM	MCPS	CPS	High School Cre Weighted	dits	1	Graduation Requirement	
DESIGN, & WEB T			A Manufacture	Course Code	66310	Credit Type	e CTE		CTE Credential Test(s) May Be Required	
Grade Lev	vel	11-12	Prerequisite(s)	Design, M	lultimedia, and V	Veb Technologies				
									TITLEU allu	
	and cont			Adobe InD	esign, Photoshor	o and Illustrator. So	ftware to cre	eate p	rinted and professional print design and maintain	
materials	and cont			Adobe InD	esign, Photoshor	o and Illustrator. So	ftware to cre	eate p	professional print	
materials a website.	and cont			Adobe InD	esign, Photoshor	o and Illustrator. So	ftware to cre	eate p	professional print	
materials a website.	and cont			Adobe InD	esign, Photoshor	o and Illustrator. So	ftware to cre	eate p	professional print	

			ornor's STE			High School Cree	dits	1	Graduation
INTROD	RODUCTION TO ERACTIVE OGRAMMING			MCPS	MCPS	Weighted			Requirement
		IG	A CONTRACT MANUAGENER	Course Code	66400	U			CTE Credential Test(s) May Be Required
Grade Lev	/el	11-12	Prerequisite(s)						
programm	ning prod	cedures wit	h one or more sta	ndard langu	lages, and mast	nming concepts, use er programming fun	damentals. (Codir	ng is used
programm throughou including §	ning prod ut the co game pr	cedures wit ourse. Graph ograms. In a	h one or more stan	ndard langu es may be u employ HT	lages, and mast sed as students		damentals. (interactive r	Codir multi	ng is used media applications
programm throughou including g employab	ning prod ut the co game pr	cedures wit ourse. Graph ograms. In a	h one or more stan nical user interface addition, students	ndard langu es may be u employ HT	lages, and mast sed as students	er programming fun design and develop	damentals. (interactive r	Codir multi	ng is used media applications
programm throughou including g employab	ning prod ut the co game pr	cedures wit ourse. Graph ograms. In a	h one or more stan nical user interface addition, students	ndard langu es may be u employ HT	lages, and mast sed as students	er programming fun design and develop	damentals. (interactive r	Codir multi	ng is used media applications
programm throughou including § employab AHS	ning prod ut the co game pr	cedures wit ourse. Graph ograms. In a	h one or more stan nical user interface addition, students	ndard langu es may be u employ HT	lages, and mast sed as students	er programming fun design and develop	damentals. (interactive r	Codir multi	ng is used media applications

		ornor's ST/F2			High School Cr	edits	1	Graduation
ADVANCED			MCPS	66410	Weighted			Requirement
	-		Course					CTE Credential
PROGRAMMING			Code		Credit Type	CTE		Test(s) May Be
		Ced Manufact						Required
Grade Level	11-12	Prerequisite(s)	Introducti	ion to Interactive	Programming			
explore and create method is availabl position with cont	indows, day application e for this co	tabase, multimedi ns related to the ir ourse. Students cor	a, games, n formation mbine class	nobile, and/or We technology and g room instruction	eb environments. ame design indus	Students will I stries. The coop	have perat	the opportunity to tive education
AHS		No	ot current	v offered due t	o multiple facto	rs. includina		
BHS		historical stude			1 5			esources
CHS					should see thei			
EMHS		Stutents	meleste		silvala see thei	i school cour	iselt	/ [•

INFORM	-		Source Stream	MCPS		High School C Weighted	redits	1	Graduation Requirement
TECHNC FUNDAI			No Manuferina	Course Code	66700	Credit Type	CTE		CTE Credential Test(s) May Be Required
Grade Lev	/el	9-10	Prerequisite(s)						
	-		tion Technology (I ⁻ Ims leading to prof	•			hnical and prof	essio	onal skills required
AHS									
BHS									
CHS	•								
EMHS									

			sternor's STEA			High School C	redits	1	Graduation
DE CYBERS				MCPS	DE(202	Weighted		\checkmark	Requirement
DECIDERSI			T A Manufacture	Course Code	DE6302	Credit Type	CTE		CTE Credential
Dual Enrolled	~		EW RIVER	NRCC Course Code(s)	ITN 106	College Credit	S	2	Test(s) May Be Required
Grade Level		9-12	Prerequisite(s)	See Below *					•

Course Description: Cybersecurity affects every individual, organization, and nation. This course focuses on the evolving and allpervasive technological environment with an emphasis on securing personal, organizational, and national information. Students will be introduced to the principles of cybersecurity, explore emerging technologies, examine threats and protective measures, and investigate the diverse high-skill, high-wage, and high-demand career opportunities in the field of cybersecurity.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

CYBERSEC	URITY I	63020	63020 This course may be taken by students who are not eligible to take a dual enrolled course					
AHS	•	Only 630	020 is offered at AHS (Non-DE)					
BHS	•							
CHS	•							
EMHS	•	Only 630	020 is offered at EMHS (Non-DE)					

_			Salemor's STEAT	MCPS		High School C Weighted	Credits	1	Graduation Requirement
DE CYBE	RSECUR	ITY II	M. A. Manuferran	Course Code	DE6304	Credit Type	CTE		CTE Credential
Dual Enrolled	~		EW RIVER	NRCC Course Code(s)	ITN 101	College Credi	ts	3	Test(s) May Be Required
Grade Leve	el	9-12	Prerequisite(s)	See Below	/ *				
operating s integrity se prepare stu * In order t (see <u>pages</u> NRCC.	ystems; f curity pla udents wi to enroll <u>9-11</u> and	to create, ans. This c ith a found in a DE co I <u>194-196</u>)	ourse may cover s dation in compute urse, students m in addition to su	ge accounts software-ba er network a ust meet all ccessful cor	s; to load software used network oper administration.	e; and to establi rating systems, ourse placemer quisite courses	sh, implement, such as Windov n t requirement s . This course ma	and vs Se s est ay ca	maintain network erver or Linux, to ablished by NRCC erry with it a fee to
CYBERSECU		63040		-	by students who a	re not eligible t	o take a dual er	ITOIIE	ed course
AHS	•	Only 63	020 is offered at A	AHS (Non-DI	E)				
BHS CHS	•								
CHO	•								

			Cournor's STIENT	MCPS		High School C	redits	1	Graduation
DE CYBERS					DE6306	Weighted		\checkmark	Requirement
DE CIDERS	ECUP	(Y	The Contraction	Course Code	DE0500	Credit Type	CTE		CTE Credential
Dual Enrolled	~		EW RIVER	NRCC Course Code(s)	ITN 261	College Credit	S	3	Test(s) May Be Required
Grade Level		10-12	Prerequisite(s)	See Below *					

Course Description: Cybersecurity Software Operations, Advanced continues to teach aspects of network administration, focusing on the management and support of network users and systems. The topics covered include understanding the responsibilities of computer professionals, training end users, evaluating new technology, developing system policies, troubleshooting workstations, managing network services and protocols, and effectively using email and business communications. Students learn communication protocols, troubleshooting techniques for systems and client-server networks, website management, and other advanced networking topics. Techniques that are used to install operating systems, set up and manage accounts, load software, and create and implement security plans are taught. This course may provide instruction about software-based network operating systems, such as Windows Server or Linux. Instruction will emphasize preparation for industry certification.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

CYBERSEC	JRITY III	63060 This course may be taken by students who are not eligible to take a dual enrolled course						
AHS	٠	Only 630	20 is offered at AHS (Non-DE)					
BHS	٠							
CHS	•							
EMHS	•	Only 630	only 63020 is offered at EMHS (Non-DE)					

		CSPETTOR'S STEAM			High School C	redits	1	Graduation		
DE COMF	PUTE	R S	SCIENCE		MCPS		Weighted		\checkmark	Requirement
PROGRAI (VIRTUAI		NG	51	Manuful Manufu	Course Code	DE6640V	Credit Type	CTE		CTE Credential Test(s) May Be
Dual Enrolled	~			W RIVER	NRCC Course Code(s)	CSC 221	College Credi	ts	3	Required
Grade Leve	el		9-12	Prerequisite(s)	DE6612 D	E Computer Infor	mation Systems	(CSC 110)		
Introduces programmi	probl ing en , a hig	em vir	n solving ai onment. Ir	rse is based on the nd implementation ncludes concepts a amming language	n of solutio and practice	ns using a high-lev e of structured pro	vel programmin ogramming, pro	g language in a blem-solving, to	stru op-d	ctured own design of
AHS	•									
BHS	٠									
CHS	٠									
EMHS	٠									

DE COM	COMPUTER SCIENCE	MCPS		High School C Weighted	redits	1 ✓	Graduation Requirement			
PROGRA (VIRTUAI		N	G 2	These Manufacture	Course Code		Credit Type	CTE		CTE Credential Test(s) May Be
Dual Enrolled	~	-		W RIVER	NRCC Course Code(s)	CSC 222	College Credit	ts	4	Required
Grade Leve	el		9-12	Prerequisite(s)	DE6640V	DE Computer Scie	nce Programmi	ng 1 (Virtual)		
and techni	ques (of c	object-orie		g to studen	ts with a backgrou	•	• •		oduces the concepts problem solving.
AHS	٠									
BHS	•									
CHS	•									
EMHS	٠									

			Covernor's STEAM			High School C	redits	1	Graduation Requirement
PROGRA (VIRTUA	MMI		Manufactory Manufactory	MCPS Course Code	DE6642V	Weighted Credit Type	CTE		CTE Credential Test(s) May Be
Dual Enrolled	~		EW RIVER	NRCC Course Code(s)	CSC 223	College Credi		4	Required
Grade Lev	el	9-12	Prerequisite(s)	DE6641V	DE Computer Scie	nce Programmi	ng 2 (Virtual)		
and contra real-world	asts dat progra	a structure	•	anipulating	data structures, a	and their use an	d appropriaten	ess i	
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

Marketing

						High School Cre	dits	1	Graduation
DDINICIDI		RIICINEC	c	MCPS		Weighted			Requirement
PRINCIPLES OF BUSINESS & MARKETING		Course Code	61150	Credit Type	СТЕ		CTE Credential Test(s) May Be Required		
Grade Leve	irade Level 9-10 Prerequisite(s			None					
Basic finan	cial con	cepts of ba	nking, insurance, d	credit, inherit	tance, taxation	in the free enterpri , and investments a age earners, and cit	ire investigat		
AHS			Ne	ot currently	offered due	to multiple factor	s, including		
BHS	•			-		of certified staff, a	·		esources.
CHS					,	e should see their			
EMHS		1							

	IARKETING EXPLORATIONS		High School Credits MCPS Weighted				1	Graduation Requirement	
MARKET	MARKETING EXPLORATIONS Grade Level 9-10 Prerequisite(s)			Course Code	81100	Credit Type	CTE		CTE Credential Test(s) May Be Required
Grade Lev	vel 🛛	9-10	Prerequisite(s)						
		•							ales, employability,
participati career skil	lls. High-o	curricular o quality wor	career and technic	al student (HQWBL) wi	organization (CTS ill provide experie	60) activities will ential learning o	develop leader oportunities rela	ship, ated	on and student , interpersonal, and to students' career anizations.
participati career skil	lls. High-o	curricular o quality wor	career and technic k-based learning (al student (HQWBL) wi	organization (CTS ill provide experie	60) activities will ential learning o	develop leader oportunities rela	ship, ated	, interpersonal, and to students' career
participati career skil goals and/	lls. High-o	curricular o quality wor	career and technic k-based learning (al student (HQWBL) wi	organization (CTS ill provide experie	60) activities will ential learning o	develop leader oportunities rela	ship, ated	, interpersonal, and to students' career
participati career skil goals and/ AHS	lls. High- /or intere	curricular o quality wor	career and technic k-based learning (al student (HQWBL) wi	organization (CTS ill provide experie	60) activities will ential learning o	develop leader oportunities rela	ship, ated	, interpersonal, and to students' career

						High School C	redits	1	Graduation
				MCPS		Weighted			Requirement
MARKET	MARKETING Grade Level 10-12 Prerequisite(s)				81200	Credit Type	CTE		CTE Credential Test(s) May Be Required
Grade Leve	el	10-12	Prerequisite(s)						
and achiev purchasing	e skills r , marke	necessary fo ting-inform	s are introduced to or successful mark nation managemer 8130 is required t o	eting empl ht, product,	oyment. Student /service planning,	s study risk man distribution, an	agement, sellin d financing.		services, and ideas omotion, pricing,
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

DE DIGITAL	<u> </u>	OCIAL M	FDIA	MCPS		High School Cr	redits	1	Graduation
MARKETING		0 0// 12 ///		Course	DE8125	Weighted		V	Requirement
IVIANNE I IIV	G			Code		Credit Type	CTE		CTE Credential
Dual Enrolled	V		W RIVER	NRCC Course Code(s)	MKT 282	College Credit	S	3	Test(s) May Be Required
Grade Level		11-12 Prerequisite(s) See Below *							
the global eco Web site. The (mathematics, applications si * In order to e (see pages 9-::	nom y exp , scie uppo enrol <u>11</u> ar	y. Student: plore ethico nce, Englis. rting this co l in a DE co nd <u>194-196</u>	e an introduction s gain knowledge il, legal, and secur h, and history/soc ourse are studied. urse, students mu) in addition to su a fee to NRCC.	of the tools ity aspects a ial science) i ist meet all	and techniques u and prepare for a related to the con admission and co	sed in Internet m career in Interne tent are a part o ourse placement	narketing and l et marketing. If this course.	earn Acad Comp	emic skills outer/technology
BHS CHS EMHS				udent intere	tly offered due to est, availability of ed in this course	certified staff, a	nd/or current r		rces.

DE ADVA	NCED	MARKET	ING	MCPS Course	DE8130	High School C Weighted	redits	1	Graduation Requirement
				Code		Credit Type	CTE		
Dual Enrolled	\checkmark		W RIVER	NRCC Course Code(s)	MKT 100	College Credi	ts	3	CTE Credential Test(s) May Be Required
Grade Leve	9	11-12	Prerequisite(s)	Marketir	ng *				
responsibil education i * In order 1 (see <u>pages</u> This course	ities an n a ma to enro <u>9-11</u> ar e may ca	d develop s rketing-rela II in a DE co nd <u>194-196</u> arry with it		dvancemen ust meet all ccessful cor	t. They develop s l admission and c mpletion of prere	kills for supervis	ory positions a	nd/o	
ADVANCED MARKETIN		81300	This course may	be taken by	y students who ar	e not eligible to	take a dual en	rolled	d course
AHS									
BHS	•	The DE81	30 course will be o	offered at B	HS based on the a	availability of qu	alified staff.		
CHS	•	Only the 81300 course is offered at CHS (NOT DE)							

EMHS • Only the 81300 course is offered at EMHS (NOT DE)

						High School C	redits	1	Graduation
				MCPS		Weighted		\checkmark	Requirement
MARKET	ARKETING MANAGEMENT				81320	Credit Type	CTE		CTE Credential Test(s) May Be Required
Grade Leve	el	12	Prerequisite(s)						
marketing and govern	and ma Iment a	nagement. gencies. Th	d/or who have pla These skills will tra is course will prep rsities across the o	anslate to sr are students	nall and large b	usinesses, nonpro	ofit organizatio	ns, se	ervice industries,
AHS									
BHS	•								
BHS CHS	•								

ADVERTISING DESIGN I				High School Cre Weighted	edits	1	Graduation Requirement		
		Course Code	85700	Credit Type	CTE		CTE Credential Tests(s) May Be Required		
Grade Level 10-11 Prerequisite									-
explores t	he elen	nents and pr		in a project-l	•	aphic design and the students	-		
-	•	This cour	se requires studer	nts to attend	BHS for at least		al day (transp	orta	
AHS					bris for at least	: a part of the scho	or day (transp	onta	tion provided).
AHS BHS	•		•			a part of the scho	oi uay (transp		tion provided).
	•	This cour	se requires studer	nts to attend		a part of the scho	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		· ,

				MCPS		High School C Weighted	redits	2	Graduation Requirement
ADVERTISING DESIGN II				Course Code	85710	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Leve	el	11-12	Prerequisite(s)	Advertising	g Design I				
Course Des	criptio	n: Continua	ation of Advertisin	g Design I.					
AHS	•	This cours	e requires studen	ts to attend	BHS for at least	t a part of the sch	ool day (transp	orta	tion provided).
BHS	•								
CHS	٠	This cours	e requires studen	ts to attend	BHS for at least	t a part of the sch	ool day (transp	orta	tion provided).
EMHS • This course requires studer		ts to attend	BHS for at least	t a part of the sch	ool day (transp	orta	tion provided).		

	RAPHICS IMAGING TECHNOLOGY I			MCPS		High School Credits Weighted		1	Graduation Requirement
GRAPHICS IMAGING TECHNOLOGY I			Course Code	86600	Credit Type	CTE		CTE Credential Tests(s) May Be Required	
Grade Lev	Grade Level 9-11 Prerequisite(s)								
overview o Students l	of digita earn to	l file prepar practice wo	ration, image captu orkplace safety and application proces	ure, color the I develop ski	eory, digital file Ils in measuren	output, press openent, mathematic	erations, and bial problem solv	inder	
AHS	•	This cours	se requires studen	ts to attend	BHS for at leas	t a part of the sch	ool day (transp	orta	tion provided).
BHS	•								
CHS									
EMHS	•	This cours	se requires studen	ts to attend	BHS for at leas	t a part of the sch	ool day (transp	orta	tion provided).

				MCPS		High School Cre Weighted	edits	2	Graduation Requirement
GRAPHIC IMAGING TECHNOLOGY II			Course Code	86610	Credit Type	CTE		CTE Credential Tests(s) May Be Required	
Grade Lev	/el	10-12	Prerequisite(s)	Graphics Imaging Technology I					•
						a career in the grap VDOE Maximum Se			
AHS	•	This cour	se requires studer	nts to attend	BHS for at leas	t a part of the scho	ol day (transp	oorta	tion provided).
BHS	•	This course requires students to attend BHS for at least a part of the school day (transportation provi							
CHS									
EMHS	HS • This course requires studen			ts to attend	BHS for at leas	t a part of the scho	ol dav (transr	orta	tion provided)

	APHICS IMAGING VISUALIZATION					High School C Weighted	redits	1	Graduation Requirement
GRAPHIC	S IMA	ging vis	UALIZATION	MCPS Course Code	84590	Credit Type	CTE	1	CTE Credential Tests(s) May Be Required
Grade Leve	el	9-12	Prerequisite(s)	None					
solve probl geometry.	ems inv Student	olving 3-D s create a	s gain experiences object manipulation variety of animatic on of a portfolio sl	on, storybo ons that ref	arding, texturing/ lect real-world ap	mapping, lightir plications and a	ng concepts, and re introduced to	d env	vironmental
AHS									
BHS									
CHS	CHS •								
EMHS									

						High School C	redits	1	Graduation
				MCPS		Weighted			Requirement
FASHION MARKETING				Course Code	81400	Credit Type	CTE		CTE Credential Test(s) May Be Required
Grade Lev	el	10-12	Prerequisite(s)						
necessary employme	for succ nt in fas	essful empl shion marke	becialized course, s loyment in appare eting, general mar Completion of 81	l businesses keting skills	. Students dev applicable to the state of t	elop general mark ne apparel and acc	eting skills nec essories indus	essa try, a	ry for successful and specialized skills
AHS									
BHS	•								
CHS	•								
EMHS									

	FD	FASHION	MARKETING	MCPS Course	DE8145	High School C Weighted	redits	1	Graduation Requirement
2271277110				Code		Credit Type	СТЕ		
Dual Enrolled	NRCC NRCC Community College MKT 120 College Credits						3	CTE Credential Test(s) May Be Required	
Grade Level		11-12	Prerequisite(s)	See Below	/ *	•			
requirements, accessories ind skills unique to * In order to e (see <u>pages 9-1</u> This course mo	stua dustr fasi nrol <u>1</u> an	lents with a ry and skills hion marke I in a DE co nd <u>194-196</u> yrry with it a	ting and advanced ourse, students mu) in addition to su	apparel an pervisory-m d general m ist meet all ccessful con	nd accessories man anagement emplo parketing skills app admission and co mpletion of prere	rketing gain in-a oyment in appar olied to the appo ourse placement quisite courses.	lepth knowledg el businesses. T arel and accesso t requirements	ie of t They d ories	the apparel and develop advanced industry.
ADVANCED FASHION MARKETING		81450	This course may	be taken by	r students who ar	e not eligible to	take a dual enr	olled	course
AHS BHS CHS EMHS				udent intere	ntly offered due to est, availability of ted in this course :	certified staff, a	nd/or current r		rces.

CDODTC	SPORTS & ENTERTAINMENT MARKETING				High School Credits MCPS Weighted		1	Graduation Requirement	
					81750	Credit Type	CTE		CTE Credential Test(s) May Be Required
Grade Lev	/el	10-12	Prerequisite(s)						
componei	nts of bra	anding, spo	•	orsements, a	is well as pron	reation industries.	d for sports, e	ntert	-
recreation					ineu to recen	e dual enrolled cre	dit for NRCC's	s MK	
AHS				•		ve dual enrolled cre	dit for NRCC's	s MK	
	•					ve dual enrolled cre	dit for NRCC's	s MK	
AHS	•					ve dual enrolled cre	dit for NRCC's	s MK	

E

DE ADVAN	CED SF	PORTS &	Ś.	MCPS		High School C	realts	1	Graduation
ENTERTAIN	IMENT	Γ		Course	DE8177	Weighted		V	Requirement
MANAGEN	1ENT			Code		Credit Type	СТЕ		CTE Credential
Dual Enrolled	\checkmark		EW RIVER						Test(s) May Be Required
Grade Level		11-12	Prerequisite(s)	See Below	*	•			·
	1		dents will build on anagement and p						-
(see pages 9- This course m NOTE: Comp ADV SPORTS ENTERTAINN	- <u>11</u> and nay carry eletion o & 1ENT	194-196 y with it o	urse, students mu) in addition to su a fee to NRCC. and DE8177 is req This course may	ccessful con Juired to rec	npletion of prere ceive DE credit fo	equisite courses.)9		-
(see pages 9- This course m NOTE: Comp ADV SPORTS	- <u>11</u> and nay carry eletion o & 1ENT	194-196 y with it o of 81750) in addition to su a fee to NRCC. and DE8177 is req This course may	ccessful con Juired to rec be taken by	npletion of prere ceive DE credit fo students who ar	e quisite courses. or NRCC's MKT 20 re not eligible to t	19 take a dual en	rolled	-
(see pages 9- This course m NOTE: Comp ADV SPORTS ENTERTAINN MANAGEME	- <u>11</u> and nay carry eletion o & 1ENT	194-196 y with it o of 81750) in addition to su a fee to NRCC. and DE8177 is req This course may N	ccessful con uired to red be taken by ot currentl	npletion of prere ceive DE credit fo students who ar ly offered due t	equisite courses. For NRCC's MKT 20 The not eligible to the complete to the co	09 ake a dual en ors, including	rolled g	course
(see pages 9- This course m NOTE: Comp ADV SPORTS ENTERTAINM MANAGEME AHS	- <u>11</u> and nay carry eletion o & 1ENT	194-196 y with it o of 81750) in addition to su a fee to NRCC. and DE8177 is req This course may N historical stude	ccessful con uired to rec be taken by ot currentl ent interest	npletion of prere teive DE credit fo students who ar ly offered due t t, availability oj	equisite courses. For NRCC's MKT 20 The not eligible to the complete to the co	09 ake a dual en ors, includin , and/or curr	rolled g	course

					High School Cre	dits	1	Graduation	
			MCPS		Weighted			Requirement	
OPPORTUNIT	IES IN GLO	BAL TRADE	Course Code	81350	Credit Type	CTE		CTE Credential Test(s) May Be Required	
Grade Level	10-12	Prerequisite(s)						•	
international tra	de. Students	gain an understa	nding of the	various careers	e for students with in global trade, finc international settin	ance, shipping			
AHS A				o multiple factors			250Urcas		
CHS	HS historical stude			dent interest, availability of certified staff, and/or current resources					

	NCED			МСРЅ		redits	1	Graduation Requirement		
	ADVANCED OPPORTUNITIES IN GLOBAL TRADE		Course Code	81360	Credit Type	CTE		CTE Credential Test(s) May Be Required		
Grade Level	12	Prerequisite(s)	Opportur	nities in Global Tra	ade					
international tra	de, builds up	ed Global Marketin oon concepts learn he world environm	ed in Global	Marketing and C	ommerce (8135)	. Economic an				
AHS		N	at currently	y offered due to	multiple facto	ors including				
BHS					1 5			25011/205		
CHS	HS Studen			dent interest, availability of certified staff, and/or current resources. Its interested in this course should see their school counselor.						
EMHS	MHS			s interested in this course should see their school courselor.						

Family & Consumer Science

						High School C	Credits	1	Graduation
				MCPS Weighted				Requirement	
INTRODU	CTION	N TO CULI	INARY ARTS	Course Code	82500	Credit Type	CTE		CTE Credential Test(s) May Be Required
Grade Level		9-10	Prerequisite(s)						
culinary pre	paratio opmer	on foundati ht, and exar	nities within the fo ons, practice basio nine the economio	culinary sl	kills, explore dive	rse cuisines and	service styles, ii	nvest	tigate nutrition and
AHS	٠	This cours	se requires studen	ts to attend	d BHS for at least	a part of the sch	ool day (transp	orta	tion provided).
BHS	٠								
CHS	٠								
EMHS					d BHS for at least	a part of the sch	nool day (transp	orta	tion provided).

	CULINARY ARTS I				MCPS High School Weighted		edits	2	2 Graduation Requirement
CULINARY ARTS I				Course Code	82750	Credit Type	CTE		CTE Credential Test(s) May Be Required
Grade Leve	!	10-11	Prerequisite(s)						
	•		s practice manage tional food establi						
	repare	, and serve	food and food pro	oducts. VDO	E Maximum So	ection Enrollment	Applies.		
	orepare •	-				ection Enrollment A	••	orta	
purchase, p		-					••	orta	
purchase, p AHS	•	-					••	ortai	

		High School Credits 2 MCPS Weighted				2	Graduation		
CULINAR	CULINARY ARTS II				82760	Weighted Credit Type	CTE		Requirement CTE Credential Test(s) May Be Required
Grade Leve	el	11-12	Prerequisite(s)	Culinary A	vrts I	•			·
other skills	learne	d in Culinar	⁷ Arts II provides st y Arts I. Students de/assistant, food	prepare for	occupations such	n as chef/cook, b	aker/pastry he	lper,	pastry decorator,
AHS	٠	This cours	se requires studen	its to attend	BHS for at least	a part of the sch	ool day (transp	orta	tion provided).
BHS	•								
CHS	•								
EMHS	•	This cours	se requires studen	ents to attend CHS for at least a part of the school day (trar				orto	the second state of the

						High School C	redits	1	Graduation
				MCPS		Weighted			Requirement
CULINAR	CULINARY ARTS SPECIALIZATION				82790	Credit Type	CTE		CTE Credential Test(s) May Be Required
Grade Leve	el	12	Prerequisite(s)	Culinary A	Arts II				
Students ex planning m available in Catering/B curriculum thinking, pu VDOE Max	kplore c enus, u the loc anquet continu ractical	areers and sing busine cality, stude Food-Prepa ues to place problem so cection Enro	ents specialize in o aration Technique a strong emphasi olving, and entrepr ollment Applies.	n impleme and select ne of the fo s; Restaura s on scienc eneurial op	nting safety and s ing and maintaini ollowing four area nt Operation Tech e and mathemati oportunities withi	anitation standa ing food service as: Baking and P hniques; Quantit cs knowledge ar n the field of cul	ards, applying na equipment. Dep astry Food-Prep y Food-Prepara od skills as it em inary arts.	utriti bend barat tion phas	ional principles, ling on the options cion Techniques; Techniques. The sizes critical
AHS	٠	This cours	se requires studen	ts to attend	d BHS for at least	a part of the sch	ool day (transp	orta	tion provided).
BHS •									
CHS	•								
EMHS	•	This cours	se requires studen	ts to attend	d CHS for at least	a part of the sch	iool day (transp	orta	tion provided).

						High School Cre	edits	1	Graduation		
				MCPS		Weighted			Requirement		
INDEPENDENT LIVING		Course Code	82190	Credit Type	CTE	CTE Credential Test(s) May Be Required					
Grade Level		9-12	Prerequisite(s)								
informed co	nsume	r choices;	creating and main	taining a livin	g environment	aging resources to a t that support the w using; and managi	vell-being of i	ndivi			
AHS			Ν	ot currently	offered due	to multiple facto	rs, including				
BHS			historical student interest, availability of certified staff, and/or current resources.								
CHS			Students interested in this course should see their school counselor.								
EMHS		1									

						High School Cr	redits	1	Graduation
				MCPS		Weighted			Requirement
FAMILY RELATIONS			Course Code	82250	Credit Type	СТЕ		CTE Credential Test(s) May Be Required	
Grade Leve	2/	9-12	Prerequisite(s)						
family thro patterns th	ughout at enha	the lifespa nce family	, , , , , , , , , , , , , , , , , , , ,	rs that build ling effectiv	and maintain h ely with family s	ealthy family relat tressors and confl	tionships, deve	lopin	elopment in the ng communication rk and family roles
AHS			Ne	ot currently	y offered due t	to multiple facto	ors, including		
BHS			historical stude	nt interest	, availability o	f certified staff,	and/or curre	nt re	esources.
CHS						should see thei			
EMHS									

						High School Crea	dits	1	Graduation		
				MCPS		Weighted			Requirement		
NUTRITION & WELLNESS		Course Code	82290	Credit Type	CTE	CTE Credentia Test(s) May B Required					
Grade Level		9-12	Prerequisite(s)						•		
analyzing rel and storing f	ations food fo	ships betwe or self and j	en psychological (family; preparing (and social nee and serving n	eds and food c utritious meals	naking choices that _l hoices; choosing foo s and snacks; selecti ellness of society.	ods that pron	note	wellness; obtaining		
AHS BHS			Not currently offered due to multiple factors, including historical student interest, availability of certified staff, and/or current resources.								
CHS EMHS						e should see their					

	INTRODUCTION TO					High School C	redits	1	Graduation
				MCPS		Weighted			Requirement
EARLY CHILDHOOD EDUCATION			Course Code	82340	Credit Type	CTE		CTE Credential Test(s) May Be Required	
Grade Level 9-12 Prerequisite(s)									
developm	ent of se	elf-concepts	d care and educati s and building self- er development; ar	esteem; lea	arning experience	es for children; pr	-		-
AHS	•	This cours	se requires studen	ts to attend	d BHS for at least	a part of the sch	ool day (transp	orta	tion provided).
BHS	•								
CHS	•								
EMHS	•	This cours	se requires studen	ts to attend	BHS for at least	a part of the sch	ool day (transp	orta	tion provided).

					High School C	Credits	2	Graduation			
EARLY CHILD	HOOD		MCPS	-	Weighted			Requirement			
EDUCATION I		Course Code	82850	Credit Type	CTE		CTE Credential Tests(s) May Be Required				
Grade Level	vel 10-12 Prerequisite(s) 82340 Introduction to Early Childhood Education										
recordkeeping schools, and ot careers in early	Course Description: Students prepare to be primary providers of home-, family-, or institution-based childcare services by focusing on the planning, organizing, and conducting of meaningful play and learning activities; child monitoring and supervision; recordkeeping and referral procedures; and work-based learning experiences in on-site labs, local daycare centers, elementary schools, and other institutions under the supervision of the instructor. Students also prepare for continuing education leading to careers in early childhood fields (e.g., medical, social services, education). VDOE Maximum Section Enrollment Applies.										
AHS •	This cours	se requires studen	its to attend	d BHS for at least a	a part of the sch	ool day (transp	ortat	ion provided).			
BHS •											
CHS •											
EMHS •	This cours	This course requires students to attend CHS for at least a part of the school day (transportation provided).									

				MCPS		High School C	redits	2	Graduation	
DE EARLY CHILDHOOD		Course	DE8286	Weighted		\checkmark	Requirement			
EDUCATIO	NII			Code Credit Type CTE CTE				CTE Credential		
Dual Enrolled	~				CHD 118 & CHD 120	College Credi	ts	6	Tests(s) May Be Required	!
Grade Level	•	11-12	Prerequisite(s)	equisite(s) Farly Childhood Education I *					•	

Course Description: This course is based on the NRCC syllabus for the appropriate course. To meet NRCC requirements, students focus on occupational skills needed by personnel employed in early childhood-related fields, such as education, medical/health care, social services, counseling, psychology, and entrepreneurship. Work-based learning experiences (e.g., on-site lab, local daycare centers, elementary schools, other institutions) under the supervision of the instructor are required.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

NOTE: This course must be scheduled for 280 clock hours. VDOE Maximum Section Enrollment Applies.

EARLY CHILDHOO EDUCATIO		82860	This course may be taken by students who are not eligible to take a dual enrolled course
AHS	•	This cours	se requires students to attend BHS for at least a part of the school day (transportation provided).
BHS	•		
CHS	•		
EMHS	•	This cours	se requires students to attend CHS for at least a part of the school day (transportation provided).

						High School Cre	edits	1	Graduation	
				MCPS		Weighted			Requirement	
INTRODUCTION TO INTERIOR DESIGN		Course Code	82550	Credit Type	CTE	CTE Credenti Test(s) May Required				
Grade Level		9-12	Prerequisite(s)							
	or desi					s on identifying and hysical and psychol	1 0			75
AHS BHS				<i>2</i>		to multiple facto				
						of certified staff, (

					High School Cre	edits	2	Graduation		
			MCPS		Weighted			Requirement		
INTERIOR DESIGN I			82950	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required Required			
Grade Level	10-12	Prerequisite(s)								
selection, purchas	se, design, a	nd decoration of h	iome furnishi	ngs and equip	um of interior desig ment; floral design; nterior design, spac	accessory col	nstru	ction; and textiles		
AHS		N	at currantly	offered due	to multiple factor	rs including				
BHS		Not currently offered due to multiple factors, including historical student interest, availability of certified staff, and/or current resources.								
CHS										
	-	Students interested in this course should see their school counselor.								

					High School Credits		1	Graduation	
INTRODUCTIO			MCPS		Weighted			Requirement	
FASHION CAREERS		Course Code	82480	Credit Type	CTE		CTE Credential Test(s) May Be Required		
Grade Level	9-12	Prerequisite(s)							
Course Description careers within the							cplor	ing the individual	
AHS		AL.	t auronth	, offered due t	a multipla forstar	in chudin a			
BHS	Not currently offered due to multiple factors, including historical student interest, availability of certified staff, and/or current resources.								
CHS									
EMHS		Students	is interested in this course should see their school counselor.						

	INTRODUCTION TO HOSPITALITY,				High School C Weighted	redits	1	Graduation Requirement		
TOURISM & RECREATION		Course Code	82590	Credit Type	CTE	1	CTE Credential Test(s) May Be Required			
Grade Level	9-12	Prerequisite(s)			·					
Course Descriptio and using emergin								ng professional skills unities.		
AHS	_	Ne	ot currentl	y offered due to	multiple fact	ors. includina				
BHS		historical student interest, availability of certified staff, and/or current resources.								
CHS		Students interested in this course should see their school counselor.								
EMHS		an school cour	iselo	17 -						

Health & Medical Sciences

				High School Credits		1	Graduation		
INTRODI	ICTION	Ν ΤΟ ΗΓΑ	ТН	MCPS	vs I	Weighted			Requirement
INTRODUCTION TO HEALTH & MEDICAL SCIENCES		Course Code	83020	Credit Type	CTE		CTE Credential Tests(s) May Be Required		
Grade Lev	el	9-12	Prerequisite(s)						
	-		lthcare field is one t to the many and			•	at job potential	for	students. This
AHS	•								
BHS	٠								
CHS	•								
EMHS	•								

DE NURSE /				MCPS Course	DE8331	High School C Weighted	Credits	2 ✓	Graduation Requirement	
				Code	010331	Credit Type	CTE		CTE Credential	
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	NUR 27	College Credi	ts	5	Tests(s) May Be Required	
Grade Level		11-12	Prerequisite(s)	See Below	v *					
Students are i	introo enrol	duced to a [.] I in a DE co		sic skills rela	ated to the health I admission and c	care field, inclu ourse placemer	uding non-nursin	ng ar s est a		
NURSE AIDE		83310	This course may be taken by students who are not eligible to take a dual enrolled course							
AHS	•	This cours	his course requires students to attend BHS for at least a part of the school day (transportation provided).							
BHS	•	Both the 8	Both the 83310 course and the DE8331 course are offered at BHS							
CHS	•	Both the 8	h the 83310 course and the DE8331 course are offered at CHS							
EMHS	•	This cours	e requires studen	ts to attend	CHS for at least a	part of the sch	ool day (transpo	ortat	ion provided).	

			MCPS		High School C Weighted	Credits	1	Graduation Requirement
MENTAL HEALT	urse Description: Depression, Anxiety, Suid d Bipolar Disorder are just a few of the mer ey can use in their day-to-day life, such as c			83320	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	12	Prerequisite(s)						
and Bipolar Disord	er are just	a few of the mente	al health iss	ues that will be a	liscussed in this d	course. Student	s wil	l also learn skills
AHS BHS CHS EMHS		historical stude	nt interest	y offered due t t, availability oj d in this course	f certified staff	, and/or curre	nt re	

DE EMER	GENC	Y MEDICA	AL.	MCPS Course	DE8333	High School Cr Weighted	redits	2	Graduation Requirement	
TECHNIC	IAN I			Code	DE0333	Credit Type	СТЕ			
Dual Enrolled	\checkmark		W RIVER	NRCC Course Code(s)	EMS 112, EMS 113 & EMS 120	College Credits	5		CTE Credential Tests(s) May Be Required	
Grade Leve	el	11-12	Prerequisite(s)	Introducti	ion to Health and I	Medical Sciences	(Recommend	ed)		
include firs	t aid, co work e	ardiopulmo ducation is	a responsibilities o nary resuscitation, provided in a hosp	ascetic tec	hnique, and relate	d anatomy, phy	siology, and di	sease		
EMERGEN MEDICAL TECHNICIA	-	83330	This course may	be taken by	r students who are	e not eligible to t	ake a dual enr	olled	course	
AHS				at currontl	h offered due to	multiple facto	re including			
BHS					y offered due to t gygilgbility of				sources	
CHS				nt interest, availability of certified staff, and/or current resources. s interested in this course should see their school counselor.						
EMHS			Stutents	mereste	u in this courses	nouiu see thei	i school coul	13810	1.	

			MCPS Weighted Require Course 83360 CTE Credit Type Code Credit Type CTE			edits	1	Graduation Requirement
EMERGENCY M	IEDICAL R	RESPONDER		CTE Credential Tests(s) May Be Required				
Grade Level	11-12	Prerequisite(s)	Introductio	on to Health and	d Medical Sciences			
while awaiting add	ditional em s of the EM	ergency medical s	ervices (EMS,) resources. Are	eas of study include	an introducti	ion to	o EMS systems, roles
AHS		N	ot currently	offered due	to multiple factor	rs. includina		
BHS				55	f certified staff, a			PSOURCPS
CHS					should see their			
EMHS		Students	meresteu			school cour	13210	// •

				MCPS		High School C	redits	1	Graduation	
DE MEDI	CAL TE	RMINOL	OGY	Course	DE8383	Weighted		\checkmark	Requirement	
				Code		Credit Type	CTE		CTE Credential	
Dual Enrolled	~		EW RIVER	NRCC Course Code(s)	HIM 101 & HIM 103	College Credit	ts	6	Tests(s) May Be Required	
Grade Leve	el	11-12	Prerequisite(s)	Introduct	ion to Health and	Medical Science	es (Recommend	ed)	*	
healthcare, therapeutic or better ir * In order t (see <u>pages</u> NRCC.	, we beg c interv n order co enro	gin with ead entions, an to advance Il in a DE co	e to the HIM 103 p ourse, students m	anatomy an plogy (drugs portion of th ust meet al	d physiology, and s). Students must his course. I admission and co	process throug complete the H	h pathology, dia HIM 101 portion ht requirements	agno n of t s esta		
MEDICAL TERMINOL	OGY	83830	This course may be taken by students who are not eligible to take a dual enrolled course							
AHS	٠									
BHS	•									
CHS	•									
EMHS	•									

					High School C	Credits	2	Graduation
	HARMACY TECHNICIAN I				Weighted			Requirement
PHARMACY TE	CHNICIAN	N I	Course Code	83050	Credit Type	CTE		CTE Credential Test(s) May Be Required
Grade Level	10-12	Prerequisite(s)	Introducti	ion to Health & N	Medical Science	or Medical Ter	minc	logy
Course Descriptio		tificate program is	•	•				• •

as a pharmacy technician. The coursework will fulfill the requirements of the Board of Pharmacy and prepare students to take either the state examination or the national examination administered by the Pharmacy Technician Certification Board. Trained, experienced pharmacy technicians who can demonstrate the right skills and knowledge should be able to pursue many exciting and respected career options or postsecondary study in the pharmacy field. **VDOE Maximum Section Enrollment Applies.**

		1	 /	1	· /		•••
AHS	•						
BHS	•						
CHS	•						
EMHS	٠						

						High School Cre	edits	2	Graduation
				MCPS		Weighted			Requirement
PHARMA	PHARMACY TECHNICIAN II Grade Level 12 Prerequisite(s) Course Description: This certificate program is a pharmacy technician. The coursework will fu he state examination or the national examina experienced pharmacy technicians who can de and respected career options or postsecondary				83060	Credit Type	CTE		CTE Credential Test(s) May Be Required
Grade Leve	e Description: This certificate program macy technician. The coursework will f			Pharmacy	/ Technician 1				
the state e experience	xamina [.] ed pharr	tion or the macy techr	national examinat	on administ nonstrate th	tered by the Ph ne right skills ar	armacy Technician nd knowledge shou	Certification	Boai purs	rd. Trained <i>,</i> ue many exciting
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

						High School Cre Weighted	Graduation Requirement		
MEDICAL	burse Description: Students will be introduce ecord as it pertains to the field of medical cod escribe human anatomy and physiology. Stud				Credit Type	CTE		CTE Credential Test(s) May Be Required	
Grade Leve	el	10-12	Prerequisite(s)						·
record as it describe hu	: perta uman	ains to the f anatomy ar	ield of medical cod	ing and billir	ng. Students wi	II be exposed to the	e medical terr	ninol	
AHS	•								
BHS	•	Me	dical Coding & Billir	ng I & II will d	only be offered	l as semester course	es within the	same	e school year.
CHS	•		Students will be red	quired to cor	mplete both co	urses in one school	year for a to	tal of	3 credits.
EMHS	•								

				MCPS	;	High School Cro	edits	2	Graduation
MEDICA	IEDICAL CODING & BILLING II rade Level 10-12 Prerequisite(s) ourse Description: Students will be introduce ecord as it pertains to the field of medical codi escribe human anatomy and physiology. Students				83890	Weighted Credit Type	CTE		Requirement CTE Credential Test(s) May Be Required
Grade Lev	/el	10-12	Prerequisite(s)						
record as describe h	it perta numan	ains to the f anatomy a	ield of medical cod	ing and billi	ng. Students will	be exposed to the	e medical tern	ninol	
AHS BHS CHS EMHS	• • •		dical Coding & Billin Students will be rea	•					•

Technology

						High School C	credits	1	Graduation	
			SCOTTON S STEWA	MCPS		Weighted		V	Requirement	
DE CIVIL E & ARCHIT		· CR·I·	A Manufacture	Course Code		Credit Type	CTE		CTE Credential Tests(s) May Be Required	10
Dual Enrolled	V		$R \cdot I \cdot T$	RIT Course Code(s)	PLTW 101-88	College Credi	ts	3	PROJECT LEAD THE WAY	N
Grade Level		11-12	Prerequisite(s)							
Course Desc	riptio	n: In this sp	ecialization cours	e for Projec	ct Lead the Way (P	LTW) students	collaborate on l	both	the development	of
community-	based	building an	d design projects	and concep	otual design for pro	oject presentati	ons.			
AHS			Nz	at currentl	y offered due to	multiple fact	ors including			
BHS					, availability of	1 5		nt re		
CHS						J				
EMHS			Students	intereste	d in this course s	noula see the	rir school coun	iselo	Γ.	

			ornor's STRA			High School C	Credits	1	Graduation	
				MCPS		Weighted		✓	Requirement	
-	rade Level 9-12 Prerequisite			Course Code	DE8439	Credit Type	CTE		CTE Credential Tests(s) May Be Required	May Be
Dual Enrolled	rolled V V V Course Code(s) PLTW 101-88 College Credits ade Level 9-12 Prerequisite(s)							3	PROJECT LEAD THE WAY	N
Grade Lev	vel	9-12	Prerequisite(s)							
Engineeri they learr	ng Des n the ei	gn. In this ngineering-	ourse is based on th foundation course i design process and se may carry with it	in Project Lo solve desig	ead the Way (PLT\ n problems for wh	W), students us nich they develo	e 3-D computer	mo	deling software as	5
AHS										
BHS										
CHS										

		OF	OF			High School C Weighted	credits	1	Graduation Requirement	
	IGINEERING		Course Code	DE8441	Credit Type	CTE		CTE Credential Tests(s) May Be Required		
Dual Enrolled	~		$R \cdot I \cdot T$	RIT Course Code(s)	PLTW 102-88	College Credi	ts	3	PROJECT LEAD THE WAY	N
Grade Lev	el	10-12	Prerequisite(s)							
Engineerir aspects of ethical imp	g. In th engine plication	nis Project L ering proble ns. Mathem	ead the Way (PLT) em solving. Studer atical and scientifi	W) course, its study th ic concepts	r Institute of Tech students explore t e historical and cu will be applied to a fee to RIT to rec	he engineering rrent impacts o fundamental e	profession and of engineering o ngineering topic	the n so	fundamental ciety, including	cs
AHS	٠									
BHS	٠									
CHS										
EMHS	•									

DE COM	PUTEI	2	Sucomor's STERN T	MCPS		High School C Weighted	redits	1 ✓	Graduation Requirement
	TEGRATED ANUFACTURING			Course Code	DE8442	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Dual Enrolled	~		$R \cdot I \cdot T$	RIT Course Code(s)	PLTW 105-88	College Credi	ts	3	PROJECT LEAD THE WAY
Grade Lev	el	10-12	Prerequisite(s)						
Manufactu automateo	uring li d manu	n this speci facturing b	ourse is based on th ialization course in I oy creating 3-D desi e may carry with it a	Project Lead gns with co	d the Way (PLTW), mputer modeling	students are ta software and p	aught concepts	of ro	
AHS									
BHS	•								
CHS									
EMHS									

	NTRODUCTION TO		MCPS		High School C Weighted	credits	1 ✓	Graduation Requirement	
(Drafting	_	DESIGN	Range Manufacult	Course Code	DE8530	Credit Type	CTE		CTE Credential
Dual Enrolled	~		R∙I∙T	RIT Course Code(s)	PLTW 101-88	College Credi	ts	3	Tests(s) May Be Required
Grade Lev	el	9-10	Prerequisite(s)						
Engineerir the basic o projection modeling	ng Desig concept . Drawi progran	n. To meet s of enginee ings are init n to create	ering drawing, suc	, students v h as line we tandard boa rious projee	will learn The University of t	versal Language ents, geometric ment. Students se computer so	of Industry. Th constructions, a s will also learn	ey le and o to us	earn to draw using orthographic se a parametric 3D
AHS									
BHS	•								
CHS									
EMHS									

DE ENGINE	ERIN	NG DESIGN				MCPS		High School C Weighted	redits	2 ✓	Graduation Requirement
GRAPHICS			A CONTRACT OF MADULATING	Course Code	DE8531	Credit Type	CTE		CTE Credential		
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	CAD 151	College Credit	ts	3	Tests(s) May Be Required		
Grade Level		11-12 Prerequisite(s)		Introducti	on to Engineering	, Design (Draftin	ıg I) *		•		

Course Description: This course is based on the NRCC syllabus for CAD 151. Building on competencies taught in Drafting I, students will master the theory and manipulative skills necessary to produce complete and accurate drawings based on the ideas and sketches of engineers, architects, and designers. Students focus on performing mechanical drafting and design operations, using manual drafting techniques and Computer Aided Drafting and Design (CADD) software, and explore careers in drafting including industry certification from ADDA.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

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•	•

DE CIVIL EN & ARCHITE			Server nor's STEW	MCPS	550500	High School C Weighted	redits	2 ✓	Graduation Requirement
DESIGN GR (Drafting II		ICS	A Manuferration	Course Code	DE8532	Credit Type	CTE		CTE Credential
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	CAD 111	College Credi	ts	3	Tests(s) May Be Required
Grade Level		11-12	11-12 Prerequisite(s)		ng Design Graphic	s (Drafting II) *			

Course Description: This course is based on the NRCC syllabus for CAD 111. Building on competencies taught in Drafting I and II, students are taught the theory and the manipulative skills necessary to produce and complete accurate drawings based on the ideas and sketches of engineers, architects, and designers. Students focus on performing architectural drafting and design operations, using manual drafting techniques and Computer Aided Drafting and Design (CADD), and exploring careers in drafting, including industry certification options.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

AHS		
BHS	٠	
BHS CHS		
EMHS		

				MCPS		High School C Weighted	redits	1	Graduation Requirement
	TECHNICAL DRAWING & DESIGN			Course Code	84350	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Lev	el	9-12	Prerequisite(s)						·
	of the gr		chnical drawing is age of technical de			•		• •	ortunity to develop tecture, drafting
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

			ernor's STEA			High School C	Credits	1	Graduation	
DE ENGINE	ERIN			MCPS		Weighted		\checkmark	Requirement	
DRAWING				Course DE8436 Code C	Credit Type	Credit Type CTE		CTE Credential		
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	CAD 111	College Credi	ts	3	Tests(s) May Be Required	
Grade Level		10-12	Prerequisite(s)	Technical	Drawing and Desi	ign *				
practical solu	s will learn various computer aided drafting and design (CADD) software applications to prepare g Il solutions to various design problems. ler to enroll in a DE course, students must meet all admission and course placement requiremer ges 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course r					1 1 0				
* In order to	enrol	ll in a DE co	ourse, students m			-	nt requirements	s est	ablished by NRCC	
* In order to (see <u>pages 9</u> -	enrol • <u>11</u> an G	ll in a DE co	ourse, students mu) in addition to su	ccessful cor		quisite courses	nt requirements . This course ma	s est ay ca	ablished by NRCC arry with it a fee to	
* In order to (see <u>pages 9</u> . NRCC. ENGINEERING DRAWING &	enrol • <u>11</u> an G	ll in a DE co nd <u>194-196</u> 84360	ourse, students mu) in addition to su	ccessful cor be taken by	npletion of prere	quisite courses	nt requirements . This course ma	s est ay ca	ablished by NRCC arry with it a fee to	
* In order to (see pages 9- NRCC. ENGINEERING DRAWING & DESIGN	enrol • <u>11</u> an G	ll in a DE co nd <u>194-196</u> 84360	ourse, students mo) in addition to su This course may	ccessful cor be taken by	npletion of prere	quisite courses	nt requirements . This course ma	s est ay ca	ablished by NRCC arry with it a fee to	
* In order to (see pages 9- NRCC. ENGINEERING DRAWING & DESIGN AHS	enrol • <u>11</u> an G	ll in a DE co nd <u>194-196</u> 84360 Only the 8	ourse, students mo) in addition to su This course may	ccessful cor be taken by fered at AH	npletion of prere y students who an S (NOT DE)	quisite courses e not eligible to	nt requirements . This course ma take a dual enr	s est ay ca	ablished by NRCC arry with it a fee to d course	

	CC CT I	URAL		MCPS		High School Crea Weighted	dits	1	Graduation Requirement
DE ARCHIT DRAWING			A Manufacture	Course Code	DE8437	Credit Type	CTE	•	CTE Credential
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	CAD 151	College Credits		3	Tests(s) May Be Required
Grade Level		10-12	Prerequisite(s)	Technical	Drawing and Des	ign *			
requirement	s, stuc	dents will b		e principles	of architectural	Engineering Drawii design and drafting ecifications of mate	g, including co		
requirement space planni * In order to	ng, de	dents will b tailed work I l in a DE co	e introduced to th king drawings, con p urse, students m u	e principles struction te ust meet all	of architectural echniques and spe admission and c	design and drafting	g, including co erials. requirements	once s est a	ptual building and ablished by NRCC
requirement space planni * In order to (see pages 9	s, stud ng, de enrol -11 an	dents will b tailed work I l in a DE co	e introduced to th king drawings, con p urse, students m u) in addition to su	e principles struction te ust meet all ccessful cor	s of architectural echniques and spe admission and c npletion of prere	design and drafting ecifications of mate course placement r	g, including co erials. r equirements his course ma	once s est a ay ca	ptual building and ablished by NRCC rry with it a fee to
requirement space planni * In order to (see pages 9 NRCC. ARCHITECTU DRAWING	s, stud ng, de enrol -11 an	dents will b tailed work Il in a DE co nd <u>194-196</u> 84370	e introduced to th king drawings, con p urse, students m u) in addition to su	e principles struction te ust meet all ccessful cor be taken by	s of architectural echniques and spe admission and c npletion of prere	design and drafting ecifications of mate course placement r equisite courses. Th	g, including co erials. r equirements his course ma	once s est a ay ca	ptual building and ablished by NRCC rry with it a fee to
requirement space planni * In order to (see <u>pages 9</u> NRCC. ARCHITECTU DRAWING & DESIGN	s, stud ng, de enrol -11 ar	dents will b tailed work Il in a DE co nd <u>194-196</u> 84370 Only the 8	e introduced to th king drawings, con p urse, students m in addition to su This course may	e principles struction te ust meet all ccessful cor be taken by fered at AH	s of architectural echniques and spe admission and c npletion of prere students who ar S (NOT DE)	design and drafting ecifications of mate course placement r equisite courses. Th	g, including co erials. r equirements his course ma	once s est a ay ca	ptual building and ablished by NRCC rry with it a fee to

EMHS

DE ADVA			Scremor's STEAM TE	MCPS		High School C Weighted	Credits	1	Graduation Requirement							
DRAWIN	-	W US		ESIGN		SIGN		SIGN		N DE8438		Credit Type CTE		<u> </u>	CTE Credential	
Dual Enrolled	~		EW RIVER	NRCC Course Code(s)	CAD 152	College Credi	ts	3	Tests(s) May Be Required	2						
Grade Leve	el	11-12	Prerequisite(s)	Architectu	ural Drawing and [Design or Engin	eering Drawing	& D	esign *							
 Course Description: This course is based on the NRCC syllabus for CAD 152 Engineering Drawing Fundame requirements, students will increase their understanding of drawing and design techniques learned in the p Students will research design-related fields while identifying the role of advanced design processes in indus manufacturing and construction. * In order to enroll in a DE course, students must meet all admission and course placement requirements (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course matched is a student of the successful completion completio								strie	s such as							
manufactu * In order t (see pages NRCC.	ring and : o enro <u>9-11</u> ar	d construct Il in a DE co	ion. ourse, students mu) in addition to su	ust meet al ccessful cor	l admission and co	ourse placemer quisite courses	n t requirements . This course ma	s est ay ca	ablished by NRCC arry with it a fee to							
manufactu * In order t (see pages NRCC. ADVANCEE DRAWING	ring and : o enro <u>9-11</u> ar	d construct Il in a DE co nd <u>194-196</u>	ion. ourse, students mu) in addition to su	ust meet al ccessful cor	l admission and completion of prere	ourse placemer quisite courses	n t requirements . This course ma	s est ay ca	ablished by NRCC arry with it a fee to							
manufactu * In order t (see <u>pages</u> NRCC. ADVANCEE DRAWING & DESIGN	ring and :o enro <u>9-11</u> ar	d construct II in a DE co nd <u>194-196</u> 84380	ion. ourse, students mu) in addition to su	ust meet al ccessful co be taken b	l admission and completion of prere-	ourse placemer quisite courses e not eligible to	n t requirements . This course ma take a dual enr	s est ay ca olleo	ablished by NRCC arry with it a fee to							
manufactu * In order t (see pages NRCC. ADVANCEE DRAWING & DESIGN AHS	ring and :o enro <u>9-11</u> ar	d construct II in a DE co ad <u>194-196</u> 84380 At BHS, st Only the	ion. Durse, students mu) in addition to su This course may	be taken by	l admission and completion of prere- y students who are 30, DE8531, and D HS.	ourse placemer quisite courses e not eligible to E 8532 before t	It requirements This course ma take a dual enr taking this cours	s est ay ca olleo	ablished by NRCC arry with it a fee to							

	DE INTRODUCTION TO DRONES			MCPS Course DE8910		High School Credits Weighted			Graduation Requirement
	UCII		KONES	Code	018910	Credit Type	CTE		SOL Test(s) Required
Dual Enrolled	~		EW RIVER	NRCC Course Code(s)	UMS 107	College Credit	ts	3	CTE Credential Test(s) May Be Required
Grade Level	el 11-12 Prerequisite(s)		See Below	*					

Course Description: This course is based on NRCC syllabi for Small Unmanned Aircraft Systems (sUAS) Remote Pilot Ground School and Components and Maintenance. To meet NRCC requirements, this course presents the aeronautical knowledge required for FAA approved commercial operations as a Remote Pilot with small Unmanned Aircraft Systems (sUAS) rating; covers the regulations applicable to small UAS operations, loading and performance, emergency procedures, crew resource management, determining the performance of the small unmanned aircraft, and maintenance/inspection procedures; prepares students for the FAA written examination required to obtain the Remote Pilot certificate (UMS 107).

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.VDOE Maximum Section Enrollment Applies.

INTRODUCTION TO DRONES		8910	This course may be taken by students who are not eligible to take a dual enrolled course			
AHS	•					
BHS	•					
CHS	•					
EMHS	•					

	-c II			MCPS Course Code	DE8736	High School Credits Weighted		1 ✓	Graduation Requirement				
DE DRONI	5 11					Credit Type	dit Type CTE		SOL Test(s) Required				
Dual Enrolled	~			NRCC Course Code(s)	UMS 177	College Credits		3	CTE Credential Test(s) May Be Required				
Grade Leve		11-12 Prerequisite(s)		DE Introduction to Drones *									
sUAS to assu components in the comp * In order to (see pages S NRCC.VDOE	 Course Description: Provides an introduction to the basic equipment and techniques used in maintaining, repairing, and upgrading sUAS to assure airworthiness and proper operation of the other components. Emphasizes safe practices in repair and handling of components and develops fundamental skills in troubleshooting/repair of the circuits, subsystems and components typically found in the complete sUAS. Covers payload sensor mounting, power management and security threat management. * In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.VDOE Maximum Section Enrollment Applies. 												
			be taken by students who are not eligible to take a dual enrolled course										
AHS													
BHS	•												
CHS EMHS	•												

Trade & Industry

			MCPS	DE0040	High School C Weighted	redits	1 ✓	Graduation Requirement	
	01		F. O Manufacture	Course Code	DE8019	Credit Type			CTE Credential
Dual Enrolled	~				WEL 100	College Credit	ts	3	Test(s) May Be Required
Grade Level	-	10-12	10-12 Prerequisite(s)	See Below '	*	•			•

Course Description: This course is based on the NRCC syllabus for WEL 100 Fundamentals of Welding. To meet NRCC requirements, students in this course will be introduced to welding processes commonly known as Stick Electrode, MIG and TIG welding. Students will also weld with Flux Core and learn advanced metal cutting techniques.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

VDOE Maximum Section Enrollment Applies. WELDING I 80190 This course may be taken by students who are not eligible to take a dual enrolled course AHS • Image: CHS • EMHS • Image: This course requires students to attend CHS for at least a part of the school day (transportation provided).

ACDICUI	CHITIRAL FARRICATIONS &			MCPS		High School Credits Weighted		1	Graduation Requirement
	AGRICULTURAL FABRICATIONS & EMERGING TECHNOLOGIES		Course 8019 Code	80191	Credit Type	CTE	·	CTE Credential Test(s) May Be Required	
Grade Leve	el	10-12	Prerequisite(s)						
metalwork within the j	ing proo field of	cesses, for a agriculture.		ations. This	course will also				ng, ana cola g technologies used
AHS			N	ot currentl	y offered due t	o multiple factors	s, including		
BHS			historical stude	nt interest	t, availability o	f certified staff, a	nd/or curre	ent re	esources.
CHS			Students	s interested in this course should see their school counselor.				or.	
EMHS	50000							_	

			overnor's STEA			High School C	redits	1	Graduation
	DE WELDING II			MCPS	DEGOOE	Weighted		\checkmark	Requirement
			The Manufacture	Course Code	DE8095	Credit Type	CTE		CTE Credential
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	WEL 123	College Credit	S	4	Test(s) May Be Required
Grade Leve	el	11-12	Prerequisite(s)	DE Weldir	ng I *	·			
requiremer	nts, this	course is a	continuation of V	Velding Lan	d will further dev	alon the student	wolding skills		
(see <u>pages</u>	<u>9-11</u> ar	nd <u>194-196</u>	ourse, students mu	ust meet al	admission and c	ourse placemen	t requirements		ablished by NRCC arry with it a fee to
(see <u>pages</u>	<mark>9-11</mark> ar E Maxiı	nd <u>194-196</u>	ourse, students mu) in addition to suc on Enrollment App	ust meet al ccessful cor plies.	admission and c	ourse placemen quisite courses.	t requirements This course ma	ау са	arry with it a fee to
(see pages NRCC.VDO	<mark>9-11</mark> ar E Maxiı	nd <u>194-196</u> num Sectio	ourse, students mu) in addition to suc on Enrollment App	ust meet al ccessful cor plies.	l admission and c npletion of prere	ourse placemen quisite courses.	t requirements This course ma	ау са	arry with it a fee to
(see pages NRCC.VDOI WELDING I	<u>9-11</u> ar E Maxiı I	nd <u>194-196</u> num Sectio	ourse, students mu) in addition to suc on Enrollment App	ust meet al ccessful cor plies.	l admission and c npletion of prere	ourse placemen quisite courses.	t requirements This course ma	ау са	arry with it a fee to
(see pages NRCC.VDOI WELDING I AHS	<mark>9-11</mark> ar E Maxiı I ●	nd <u>194-196</u> num Sectio	ourse, students mu) in addition to suc on Enrollment App	ust meet al ccessful cor plies.	l admission and c npletion of prere	ourse placemen quisite courses.	t requirements This course ma	ау са	arry with it a fee to

DE WELDIN	c III	MCPS Course DE8096			DEBOOC	High School Credits Weighted			Graduation Requirement
	U III			Credit Type	CTE		CTE Credential		
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	WEL 160	College Credit	ts	4	Test(s) May Be Required
Grade Level		11-12		DE Weldin	ig II *	·			

Course Description: Introduces semi-automatic welding processes with emphasis on practical application. Includes the study of filler wires, fluxes, and gases. Also known as "MIG" welding, this process, because it uses an arc between a continuous filler wire and the weld pool, is extremely fast and economical. GMAW is often used in production work due to its speed, versatility and ease of use. The process is used with shielding from an externally supplied gas and is used to weld on a variety of metal thicknesses from thin-gauge metal to heavy plate metal in any position.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.VDOE Maximum Section Enrollment Applies.

WELDING		80960	This course may be taken by students who are not eligible to take a dual enrolled course
AHS	•		
BHS	•		
CHS	•		
EMHS	•	This cours	se requires students to attend CHS for at least a part of the school day (transportation provided).

)			High School Cre	dits	1	Graduation	
MANUFACTURING SYSTEMS I		A Manual A	SCOVERNOT'S STEAL	Southant STEW	MCPS		Weighted			Requirement
			Course Code	84250	Credit Type	CTE		CTE Credential Tests(s) May Be Required		
Grade Lev	/el	9-12	Prerequisite(s)							
Course D	escriptio	n: This cou	rse provides an or	ientation to	careers in vario	us fields of manufa	cturing. Empl	hasis	will be placed on	
manufact individual	uring sys and tear	tems, safet m activities	y, materials, produ	uction, busir s that demo	ness concepts, a Instrate critical e	nd the manufacturi elements of manufa	ing process. S	stude	ents participate in	
manufact individual	uring sys and tear	tems, safet m activities	y, materials, produte to create product	uction, busir s that demo	ness concepts, a Instrate critical e	nd the manufacturi elements of manufa	ing process. S	stude	ents participate in	
manufact individual constitut	uring sys and tear	tems, safet m activities	y, materials, produte to create product	uction, busir s that demo	ness concepts, a Instrate critical e	nd the manufacturi elements of manufa	ing process. S	stude	ents participate in	
manufact individual constitute AHS	uring sys and tear a CTE co	tems, safet m activities	y, materials, produte to create product	uction, busir s that demo	ness concepts, a Instrate critical e	nd the manufacturi elements of manufa	ing process. S	stude	ents participate in	

			Common's STEW	Sovermor's STEAM	Covernor's STEAT	Sectomor's STEAT	Sevenmer's STEER to	Common's STrend to	MCPS		High School Cre Weighted	edits	1	Graduation Requirement
MANUF SYSTEM		ING	Course 84270 Code Credit Type CTE			CTE Credential Tests(s) May Be Required								
Grade Lev	vel	11-12	Prerequisite(s)	Manufact	uring Systems I									
Course De	escriptio	n: Student	s develon an in dei	nth underst	tanding of autom	ation and its appli	cations in ma	nufa	cturing Activities					
center on complex i	flexible nterdisci	manufactu plinary pro	ring processes and	computer	integrated manu	ation and its appli facturing (CIM). St tomated manufac	udents work i		cturing. Activities ams to solve					
center on complex i	flexible nterdisci	manufactu plinary pro	ring processes and blems that stem fr	computer	integrated manu	facturing (CIM). St	udents work i		_					
center on complex i VDOE Ma	flexible nterdisci	manufactu plinary pro	ring processes and blems that stem fr	computer	integrated manu	facturing (CIM). St	udents work i		_					
center on complex i VDOE Ma AHS	flexible nterdisci	manufactu plinary pro	ring processes and blems that stem fr	computer	integrated manu	facturing (CIM). St	udents work i		_					

			(High School Cr	edits	1	Graduation
MATERIALS & PROCESSES		Covernor's STEAM	MCPS		Weighted			Requirement	
TECHNO		ROCESSE		Course Code	84330	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Lev	el	9-10	Prerequisite(s)						
and proce recommer	ssing of nded for	metals, plas students in	tics, woods, cerar	nics, and co cal careers	omposite materia and others wishi	se of tools and equals. This single-pe ing to improve the	riod laborator	γ ςοι	irse is
AHS	•								
BHS	•								
CHS									
EMHS									

CONSTR		and the state of t		MCPS		High School Cro Weighted	edits	1	Graduation Requirement
		A Manufacture	Course Code	84310	Credit Type	CTE		CTE Credential Tests(s) May Be Required	
Grade Leve	el	9-12	Prerequisite(s)			· · · ·			
understan	d the jol	os of archit	s design, build and ects, carpenters, e construction caree	lectricians,	plumbers, survey	ors, contractors,	masons, and o		nelp them n engineers, as well
AHS	٠								
BHS	•								
CHS									
EMHS	٠								

		cosemor's STEAT	MCPS	25	High School Credits Weighted		2	Graduation Requirement
BUILDING TRADES I			Course Code	85150	Credit Type	CTE	•	CTE Credential Tests(s) May Be Required
Grade Level	10-11	Prerequisite(s)						
Course Descriptio materials such as a core safety in the	metal, woo	d, stone, brick, gla	ss, concrete	and composition	n substances. Stu	idents focus o	n dev	
AHS		NL	at currently	y offered due to	- multiple facto	ore including		
BHS]							
Bits historical student interest, availability of certified staff, and/or CHS Students interested in this course should see their school								
EMHS Studen			intereste	a in this course	snoula see the	ir school coul	nseio)r.

					High School C	redits	2	Graduation
		Governor's STEW	MCPS	burse 85160	Weighted			Requirement
BUILDING TRA	ADES II	C Manufacture	Course Code		Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Level	10-11	Prerequisite(s)						
structures using developing skills	materials suc in core safet	Trades II continue ch as metal, wood, y in the masonry, c ection Enrollment	stone, bric carpentry, e	k, glass, concrete	and compositio	n substances. S	tuder	nts focus on
AHS		Λ/	nt current	ly offered due to	multiple fact	ors including		
BHS		Not currently offered due to multiple factors, including historical student interest, availability of certified staff, and/or current resources.						
CHS					5 55.			
EMHS		sintereste	d in this course	snoula see the	rir school cour	iselo	r.	

					MCF		High Schoo Weighted		redits	1	Graduation Requirement
CARPENT	'RY I		Month Manufacture	Course Code	86010	Credit Type	CTE		CTE Credential Tests(s) May Be Required		
Grade Leve	el	9-12	Prerequisite(s)								
exciting an construction component	d lucrat on math ts to for	ive career. ematics, ar m foundati	• •	on safety, rints. Stude Ills, floors, c	students are taug nts will become p ceilings, roofs, doo	sht to use hand a proficient in iden	nd power tools tifying types of	s, cut resio			
AHS											
BHS	•										
CHS	•										
EMHS	•										

			not's SZ			High School C	redits	2	Graduation
				MCPS		Weighted			Requirement
CARPEN	TRY II		A Read Manufacture	Course Code	86020	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Lev	vel	9-12	Prerequisite(s)	Carpentry	/				
common t assemblin rigging an exterior d VDOE Ma	to the ind g and ins d job-est oors and	dustry to co stalling vari imating pro windows,	•	SHA 10 safential const foundation	ety credential ear ruction compone is, framing floors,	ned in Carpentr nts that are curr walls, ceiling, rc	y I. Students wil rent with indust pofs, trusses, roo	ll be ry st ofing	come proficient in andards, including g materials, stairs,
AHS									
BHS	•								
CHS	•								
EMHS	•								

			mor's STE			High School Cr	edits	2	Graduation	
				MCPS		Weighted			Requirement	
CARPEN	TRY III		A CONTRACT MADU	Course 86030 Code Credit Type Site(s) Carpentry II		CTE		CTE Credential Tests(s) May Bo Required		
Grade Lev	/el	10-12	Prerequisite(s)	Carpentry	' II					
on-the-jol carpentry	o experie professi	ence in addi on and pos	tion to what he o	r she has alr	eady mastered i	for this course wo n Carpentry I and and professional o	II. Additional e	xplo	ration of the	cal,
AHS										
BHS	•									
CHS	•									
EMHS										

		MCPS High School Co		High School Cre	edits	1	Graduation		
				MCPS		Weighted			Requirement
CABINET	BINET MAKING I de Level 9-12		W Manufacture	Course Code	86040	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Leve	el	9-12	Prerequisite(s)						
and selecti technical, p constructio	ing mate problem on trade	erials; cutti -solving, le s and profe	ng and shaping sto adership, and crea	ck; assemb ative skills le	ling, fastening, a earned in Cabine	ability skills as they and installing comp atmaking can be ap ag learning and suc	onents; and fi plied in indust	nishi	ing surfaces. The
AHS									
BHS	•								
CHS									
EMHS	•								

CABINET MAKING II Grade Level 9-12		MCPS Course Code 86051	MCPS		High School Cree Weighted	dits	2	Graduation Requirement	
			Credit Type	Credit Type CTE		CTE Credential Tests(s) May Be Required			
Grade Leve	el	9-12	Prerequisite(s)	Cabinet N	laking I				
•				•	-	n, and install compo			
wood vene and creativ	eers and ve skills	l plastic lan learned in	ninates; finish surfa Cabinetmaking car	aces; and tr n be applied	ansport and inst in industries we		chnical, prob tion trades a	lem-	rior finishes; apply solving, leadership,
wood vene and creativ	eers and ve skills	l plastic lan learned in	ninates; finish surfa Cabinetmaking car	aces; and tr n be applied	ansport and inst in industries we	n, and install compo tall cabinets. The teo ell beyond construct	chnical, prob tion trades a	lem-	rior finishes; apply solving, leadership,
wood vene and creativ prepare the	eers and ve skills	l plastic lan learned in	ninates; finish surfa Cabinetmaking car	aces; and tr n be applied	ansport and inst in industries we	n, and install compo tall cabinets. The teo ell beyond construct	chnical, prob tion trades a	lem-	rior finishes; apply solving, leadership,
wood vene and creativ prepare the AHS	eers and ve skills	l plastic lan learned in	ninates; finish surfa Cabinetmaking car	aces; and tr n be applied	ansport and inst in industries we	n, and install compo tall cabinets. The teo ell beyond construct	chnical, prob tion trades a	lem-	rior finishes; apply solving, leadership,

			200'5 \$720			High School C	Credits	1	Graduation
TECHNO	LOGY	OF	Sector The Part of the	MCPS		Weighted			Requirement
ROBOTIC (ROBOTI		GN	A CONTRACTOR	Course Code	84210	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Lev	el	9-11	Prerequisite(s)						
control sys and interfa manufactu	stems, a ace devi iring and	nd social/cu ces with cou d design, an	•	nese techno earning act omechanio	ologies. Problem-s tivities include rob cal devices. The c	solving activities potics, computer ontent of this C	s challenge stud r-aided design, TE / Technology	ents com	
Robotics I		98281	This course can	be taught a	as a local elective.				
AHS	٠								
BHS	•								
	•								
CHS	•								

			201's C70			High School C	redits	1	Graduation
ENGINEE	RING		Seren Brake	MCPS		Weighted			Requirement
EXPLORA (ROBOTI		6	THE MANUMERICAN	Course Code	84500	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Leve	el	9-12	Prerequisite(s)	Technolo	gy of Robotics Des	sign I (Robotics I)		
examine th mathemati projects. St The conter	e princi cal and udents it of thi	iple enginee scientific co communica s CTE / Tecl	• • •	ds and thei apply the e d information	r related careers. engineering desigr on through team-	Students praction process throug based presentat	ce engineering f th participation tions, proposals	^f unda in ha	
Robotics II		98282	This course can	be taught	as a local elective.				
AHS	٠								
BHS	•								
CHS	٠								
EMHS	•								

	NGINEERING STUDIES ROBOTICS III) rade Level 11-12 Prerequisite(Severmor's STEAL	MCPS	84910	High School C Weighted	redits	1	Graduation Requirement	
		A CONTRACT OF A	Course Code		Credit Type	CTE		CTE Credential Tests(s) May Be Required	
Grade Level		11-12	Prerequisite(s)	Engineerir	ng Explorations (R	obotics II)			
curriculum d through brai while applyin	leman Instorr ng the	ding rigor ning and engineer	ous study habits prototyping. Stud ing design proces	and other c ents practions to comple	ce basic engineeri	Students are er ng skills and cor project. The c	ncouraged to be nmunication of ontent of this C	ecom tech	g problems in a ne routinely inquisitive nnical information Technology Education
Robotics III		98283	This course can	be taught a	as a local elective.				
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

		ornor's STEA			High School Cro	edits	1	Graduation	
			MCPS		Weighted			Requirement	
ROBOTICS EXF	PERIENCE I	Righter Manufacture	Course Code	98281	Credit Type	Elective		CTE Credential Tests(s) May Be Required	
Grade Level		Prerequisite(s)							
control systems, and interface dev	and social/cu ices with cor nd design, an	Iltural impact of the mputer systems. Le and control of electro	nese techno earning act	ologies. Problem- ivities include rol	oment and operati solving activities c botics, computer-a course is equivale	hallenge stude iided design, c	ents i	to design, progran	7
AHS BHS CHS EMHS	-	historical stude	nt interes		to multiple facto f certified staff, schould soo their	and/or curre			

		Sumor's STEAT	MCPS		High School Cr	edits	1	Graduation
			MCPS		Weighted			Requirement
ROBOTICS EXPL	ERIENCE II		Course	98282				CTE Credential
			Code		Credit Type	Elective		Tests(s) May Be
		Ced Manufact						Required
Grade Level		Prerequisite(s)	98281 or	84210				
Course Description	n: In Engine	ering Exploration	s I, students	s examine techno	plogy and enginee	ring fundament	tals I	in relation to
								s, and they examine
								using mathematical
1 1 0	<u> </u>					0 /		
and scientific conc	1 .	, , , , , , , , , , , , , , , , , , , ,					· · · · ·	
Students commun						sals, and techn	ical	reports. The
content of this CTI	E / Technolo	ogy Education coι	ırse is the s	ame as course 8	4500.			
VDOE Maximum S	ection Enro	llment Applies.						
AHS		A/	- t t.l	les affansal desa	a martine for at a	un in des die e		
7 17 197		N		y offered due t	to multiple facto	rs, including		
BHS								
				- / /	f certified staff, should see thei			

			Summor's STEAT	MCPS		High School Cr Weighted	edits	1	Graduation Requirement	
ROBOTIC	S EXPE	RIENCE II	We Arten Manufacture	Course Code	98283	Credit Type	Elective		CTE Credential Tests(s) May Be Required	2
Grade Leve	el		Prerequisite(s)	98282 or	84500					
students by curriculum through br while apply	y empha demana ainstorn ying the	isizing integ ding rigorou ning and pro engineering	ration of mathen s study habits an ototyping. Studen design process t	natics, scien d other coll ts practice o complete	ce, and English c ege-level skills. S basic engineering	g skills and commu project. The conte	into engineeri raged to beco unication of te	ng p me r chnia	roblems in a outinely inquisitive	
AHS BHS CHS EMHS			historical stude	nt interes	t, availability oj	o multiple facto f certified staff, should see thei	and/or curre			

DDECICIO			Common's STEAM	MCPS		High School C Weighted	redits	2	Graduation Requirement
TECHNO		CHINING I	A MANUAL AND AND A MANUAL AND AND A MANUAL AND	Course Code	85390	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Lev	el	10-11	Prerequisite(s)						
operation	of an er	ngine lathe,	lent learns basic s milling machines, ual enrolled cred	drill press	surface grinders a	s well as sawing	operations. Co	ompl	etion of 85390 and
AHS	•	This cours	e requires studen	ts to attend	d CHS for at least a	a part of the sch	ool day (transp	ansportation provided	
BHS	•	This cours	e requires studen	ts to attend	d CHS for at least a	a part of the school day (tran		ortat	tion provided).
CHS	•					• • •			
EMHS	•	This cours	e requires studen	ts to attend	d CHS for at least a	a part of the school day (trans		ortat	tion provided).

DE PRECISI				MCPS	550540	High School C Weighted	redits	2 ✓	Graduation Requirement
TECHNOLO	GY I	I	A Real Manufacture	Course Code	DE8540	Credit Type	CTE		CTE Credential
Dual Enrolled	~		NEW RIVER Community College		MAC 106	College Credi	ts	8	Tests(s) May Be Required
Grade Level		11-12	Prerequisite(s)	Precision N	/lachining I *				

Course Description: This course is based on the NRCC syllabus for MAC 106 Machine Shop Operations To meet NRCC requirements, Machine Tech II and III, students learn about the manufacturing processes and are introduced to computer numerical control (CNC), milling machines and lathes. They study the strength of materials and metallurgy and can design their own projects from a blueprint to the finished product.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

NOTE: Completion of 85390 and DE8540 required to receive dual enrolled credit for NRCC's MAC 106. VDOE Maximum Section Enrollment Applies.

PRECISION MACHININ TECHNOL	NG	85400	This course may be taken by students who are not eligible to take a dual enrolled course						
AHS	•	This cours	s course requires students to attend CHS for at least a part of the school day (transportation provided).						
BHS	•	This cours	course requires students to attend CHS for at least a part of the school day (transportation provided).						
CHS	•								
EMHS	•	This cours	This course requires students to attend CHS for at least a part of the school day (transportation provided).						

						High School Cre	dits	1	Graduation		
				MCPS		Weighted			Requirement		
POWER 8	trai	NSPORTA	TION	Course 84450 Code		Credit Type	CTE	CTE Credential Tests(s) May Be Required			
Grade Leve	1	9-11	Prerequisite(s) urse explores the ways that energy is converted to power and the ways power is transmitted,								
controlled, opportuniti	and use es in th	ed through e power an	mechanical, fluid, nd transportation f	and electric	cal devices. Stud	dents will explore tro	ansportation			reer	
AHS			ΛL.	ot currentl	v offered due	to multiple factor	s including				
BHS									2001/2000		
CHS		historical stude		- /							
EMHS			Students	sintereste	a in this course	e should see their	school cour	iselo	pr.		

						High School C	redits	2	Graduation
				MCPS		Weighted			Requirement
AUTO TECH I Grade Level Course Descriptio	СНІ	ASS NATEF		Course Code	85060	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Leve	el	10	Prerequisite(s)						
in the autor school. Stu the what, h	motive Idents a Iow, an	field or pro are expecte d why of au	wide them with th	ne backgrou wledge of au ons. As stuc	nd to continue de utomobile compo dents gain knowle	eveloping more openents and how sedge, they are ab	diagnostic skills systems perform le to practice ar	as a n in d nd d	order to understand emonstrate their
AHS	•	This cours	se requires studer	nts to atten	d CHS for at least	a part of the sch	ool day (transp	orta	tion provided).
BHS	•	This cours	se requires studer	nts to atten	d CHS for at least	a part of the sch	ool day (transpo	orta	tion provided).
CHS	•								
EMHS	•	This cours							

			NATEF	MCPS Course Code		High School C Weighted	redits	2	Graduation Requirement
AUTO TEC	CH II				85070	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Leve	I	11	Prerequisite(s)	Automoti	ve Technology I				
Course Des	criptio	n: This cou	rse is a continuati	on of 85060). VDOE Maximu	m Section Enroll	ment Applies.		
AHS	٠	This cours	se requires studen	ts to attend	l CHS for at least	a part of the sch	ool day (transp	orta	tion provided).
BHS	٠	This cours	se requires studen	ts to attend	CHS for at least	a part of the sch	ool day (transp	orta	tion provided).
CHS	٠								
EMHS	•	This cours	se requires studen	ts to attend	CHS for at least	a part of the sch	ool day (transp	orta	tion provided).

				MCPS		High School C Weighted	redits	2	Graduation Requirement
AUTO TE	CH III	AS	NATEF	Course Code	85080	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Leve	el	12	Prerequisite(s)	Automoti	ve Technology II				
Course Des	criptio	n: This cour	rse is a continuatio	on of 85070). VDOE Maximu	m Section Enrol	Iment Applies.		
AHS	٠	This cours	e requires studen	ts to attend	d CHS for at least a	a part of the sch	ool day (transp	orta	tion provided).
BHS	•	This cours	e requires studen	ts to attend	d CHS for at least	a part of the sch	ool day (transp	orta	tion provided).
CHS	•								
EMHS	٠	This cours	e requires studen	ts to attend	d CHS for at least a	a part of the sch	ool day (transp	orta	tion provided).

					High School Cr	edits	1	Graduation
			MCPS		Weighted			Requirement
BEAUTY SALON	ASSISTA	NT	Course 85460 Code	Credit Type	CTE		CTE Credential Tests(s) May Be Required	
Grade Level	10-11 Prerequisite(s)							
Course Description and prepare in a cl shampooing and co certificate for entry graduation. This c	inical lab se onditioning /-level emp	etting, learning pra , retailing, invento loyment. This cou	ictical and r ory control,	nanipulative skill and receptionist	s. The program en work. Competenc	nphasizes safe cy completions	ety ai s allo	nd sanitation, w students a
AHS BHS CHS EMHS		historical stude	nt interest,	availability of ce	ultiple factors, in rtified staff, and/ uld see their scho	or current res	ourc	es.

				MCPS	-	High School Cr Weighted	edits	2	Graduation Requirement		
COSMETO	logy	I		Course Code	85270	Credit Type	CTE		CTE Credential Tests(s) May Be Required		
Grade Level		10-11	Prerequisite(s)								
develop skills services and licensing exa	s in sha develo I minat i	impooing op skills in i on, stude	and conditioning manicure and pe	hair, as we dicure proc te all three	ll as styling and edures. This co levels to receiv	ve a minimum nui	are introduced hours. To be	d to eligi	chemical texture ble to take the Board		
AHS	•	This co	urse requires stud	ents to atte	end BHS for at l	east a part of the	school day (tra	nspo	ortation provided).		
BHS	•										
CHS	•										
EMHS	•	This co	s course requires students to attend CHS for at least a part of the school day (transportation provided).						ortation provided).		

						High School C	redits	2	Graduation
				MCPS		Weighted			Requirement
COSMET	OLOG	Y II		Course Code	85280	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Leve	el	10-11	Prerequisite(s)	Cosmetolo	ogy I				
cosmetolog consultation soft-curl person students lee enhancem supervised This course to receive VDOE Max	gy to ind on, safet ermane earn to o ents. A on-the e requir a minin	crease pro ty, and infe nt waves, l care for ski business m -job trainin es 280 hou num numb Section Enu	ightening, and col n, hands, and feet nanagement unit f ng in an approved urs. To be eligible per of 840 instruct rollment Applies.	ting and sty dents are tra oring hair. T ;, developing ocuses on m position or i to take the ional hours	ling on live mode ained in safe cher They also develop g experience in pr nanaging the salo internship with co Board licensing in Barbering or C	els, with attention mical processes of artistic skills with roviding facials, of n. Students can continuing superv examination, sto Cosmetology.	n to professiona related to perm th wigs and hair manicures, pedi combine classro ision throughou udents must co	alism aner add cure com it th mple	n, client nt waves, relaxers, itions. In addition, es, and nail instruction and e school year. ete all three levels
AHS	•	This cour	se requires stude	nts to attend	d BHS for at least	a part of the sch	ool day (transp	orta	tion provided).
BHS	•								
CHS	•								
EMHS	•	This cour	se requires stude	nts to attend	d CHS for at least	a part of the sch	ool day (transp	orta	tion provided).

						High School C	redits	2	Graduation
				MCPS		Weighted			Requirement
COSMET	OLOG	Y III		Course Code	85290	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Lev	el	11-12	Prerequisite(s)	Cosmetol	ogy II				
cosmetolo consultatio advanced for skin, ha business m Licensing E internship required p the Board hours in B	gy to in on, safe hair cole ands, ar nanager Exam. St with co reparat licensir	crease prof ty, and infe oring techn id feet, dev nent unit fo cudents can ntinuing su ion for the ng examina g or Cosme	iques. They also d eloping experienc ocuses on managir combine classroc pervision through student for the Vi tion, students mu tology. VDOE Ma	ting and sty dents are tr evelop artis e in providi ng the salor om instructi out the sch rginia State st complet ximum Sec	Vling on live mode rained in safe cher stic skills with wig- ing facials, manicu n. Competency col ion and supervised tool year. Competency Licensing Exam. e all three levels to ction Enrollment /	ls, with attentio nical processes s and hair additi tres, pedicures, a mpletion prepar d on-the-job tra tency completio This course req to receive a min Applies.	n to professiona related to chem ons. In addition and nail enhanc es the student ining in an appr n in 85270, 852 uires 280 hours imum number	alism nical f seme for th oved 80, a 5. To of 84	a, client texture services and dents learn to care nts. An advanced he Virginia State I position or and 85290 are be eligible to take 10 instructional
AHS	•	This cours	se requires studen	ts to attend	d BHS for at least	a part of the sch	ool day (transp	ortat	tion provided).
BHS	•								
CHS	•								

EMHS	•	This course requires students to attend CHS for at least a part of the school day (transportation provided).

			High School C	credits	2	Graduation
	MCPS		Weighted			Requirement
BARBERING I	Course	87400				CTE Credential
	Code		Credit Type	CTE		Tests(s) May Be
						Required
Grade Level 10-11 P	10-11 Prerequisite(s)					
Course Description: Barbering	is the study of hair, scalp, a	and skin. Student	ts study and prep	are in a clinical	lab s	etting, using
mannequins and live models for	r manipulative practice. Th	e program emph	asizes safety and	sanitation, con	nmur	nication, and
management skills. Related are	eas of study include psychol	logy, ethics, and	professional imag	ge. Competency	com	pletions prepare
the students to work or apprent	tice in a local barber shop (or beauty salon.	This course requ	ires 280 hours.	To b	e eligible to take
the Board licensing examination	on, students must complet	e all three levels	to receive a min	imum number o	of 84	0 instructional
hours in Barbering or Cosmetol	-					
AHS						
BHS		/ //	to multiple facto	, J		
CHS	historical student inter					urces.
EMHS	Students interes	stea in this cours	e should see thei	ir school counse	elor.	

						High School Credits		2	Graduation	
BARBERI	ING II			MCPS Course Code	87410	Weighted Credit Type	CTE		Requirement CTE Credential Tests(s) May Be Required	
Grade Lev	el	11-12	Prerequisite(s)	Barbering	1				•	
or beauty students fo examinati	salon. R or the V on, stu	elated area irginia state dents must	e program empha Is of study include e licensing exam. complete all thre um Section Enroll	psychology This course e levels to r	, ethics, and pro requires 280 ho receive a minimu	fessional image. (urs. To be eligib l	Competency co l e to take the l	omple Board	tions prepare the I licensing	e
AHS BHS CHS EMHS				udent inter	est, availability o	to multiple facto of certified staff, e should see thei	and/or curren		ources.	

					High School Credits		2	Graduation
			MCPS		Weighted			Requirement
BARBERING II	BARBERING III		Course Code	87420	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Level	12	Prerequisite(s)	Barbering	11				

Course Description: In this advanced course, students build on their theoretical foundation of general sciences and practices in barbering to increase proficiency in hair cutting and styling on live models, with attention to professionalism, client consultation, safety, and infection control. Students are trained in safe chemical processes related to chemical texture services and advanced hair coloring techniques. They also develop artistic skills with wigs and hair additions. An advanced business management unit focuses on managing the shop. Competency completion prepares the student for the Virginia State Licensing Exam. Students can combine classroom instruction and supervised on-the-job training in an approved position or internship with continuing supervision throughout the school year. This course requires 280 hours. To be eligible to take the Board licensing examination, students must complete all three levels to receive a minimum number of 840 instructional hours in Barbering or Cosmetology. VDOE Maximum Section Enrollment Applies.

AHS	Not surroutly offered due to reultiple furters including
BHS	Not currently offered due to multiple factors, including
	historical student interest, availability of certified staff, and/or current resources.
CHS	
EMHS	Students interested in this course should see their school counselor.

						High School Cre	edits	1	Graduation
CINEMA 8	. рно	TOGDAD	ніс	MCPS		Weighted			Requirement
PRODUCT		TOUNAF	me	Code Credit Type CTE Te		CTE Credential Tests(s) May Be Required			
Grade Level		9-12	Prerequisite(s)			· ·			·
today's glob a variety of a professional	al, mu techno I-grade	ltimedia so logy, incluc : images. In	ciety. Students wil ding digital camero	ll be taught as, design so s will evaluo	industry-relevan oftware, and edi ate and critique p	ting tools to stage, photographic work	nd have the op shoot, proces	opori ss, pr	tunity to work with int, and present
AHS BHS			historical stu	Not currently offered due to multiple factors, including tudent interest, availability of certified staff, and/or current resources. ents interested in this course should see their school counselor.					
CHS EMHS			Stude						

						High School Cr	edits	2	Graduation
CINEMA 8	. рил	TOGDAD	ыс	MCPS		Weighted			Requirement
PRODUCT			inc.	Course Code	ode Credit Type CTE Te		CTE Credential Tests(s) May Be Required		
Grade Level		11-12	Prerequisite(s)	Cinema ar	nd Photographic	Production I			
today's glob skills and ha editing tools	al, mu ve the s to sta	ltimedia so opportunit ge, shoot, µ	ciety. In this final y y to work with a v process, print, and	year of Com ariety of tea present pro	mercial Photogra chnology, includi ofessional-grade	ace visual content aphy, students are ng digital cameras images while deve room developmen	e taught indust 5, lighting, des eloping a portj	try-re ign s	elevant technical
AHS				Not curre	ntly offered due	to multiple factor	s includina		
BHS			historical st			of certified staff, a		reso	nurces
CHS							2		uices.
EMHS			Stude	ents interested in this course should see their school counselor.					

					High School Cre	edits	1	Graduation
HEATING, VEN	τιι ατιονι		MCPS		Weighted			Requirement
& AIR CONDITI			Course 85030 Code		Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Level	10-11	Prerequisite(s)						
and cool a house. This class is great	In addition for anyone	, students learn ho who wants to wor	ow to diagno k in a hands	se and repair ro -on field or for (ild and install all of efrigerators, air cor anyone who just wo or 7 college credits	nditioners, hea ants to know h	it pu	mps and furnaces.
AHS BHS CHS EMHS			udent intere	st, availability	to multiple factors of certified staff, a se should see their s	nd/or current		urces.

HEATING, VENTILATION,		MCPS		High School Ci Weighted	redits	2	Graduation Requirement	
& AIR CONDITI	,		Course Code	85040	Credit Type CTE Tests(s)	CTE Credential Tests(s) May Be Required		
Grade Level	11-12	Prerequisite(s)	HVACR I					
	In addition, for anyone	, students learn ho	ow to diagna	ose and repair rej	frigerators, air co	onditioners, he	at pu	s necessary to heat mps and furnaces. to do repairs on
AHS BHS CHS EMHS			udent intere	ntly offered due t est, availability o ted in this course	f certified staff, o	and/or current		ources.

						High School C	redits	1	Graduation
				MCPS		Weighted			Requirement
ELECTRICI	ΤΥΙ				Course 85330 Code	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level		10-11	Prerequisite(s)						·
applications will learn ho	, with o w to se	a special er afely use el		ectrical aspe rs to diagno	ects of heating ve se and repair pro	entilation and air o oblems in electrico	conditioning (F al distribution (IVAC, circui) systems. Students its and equipment
AHS				Not curro	ntly offered due	to multiple facto	re including		
BHS			historical st		7 88	to multiple facto of certified staff, (, .	t roce	ources
CHS						e should see their			<i>Juices.</i>
EMHS			5100	into interes			School Couris	CIUI.	

					High School Credits Weighted		2	Graduation
			MCPS					Requirement
ELECTRICITY II	TRICITY II		Course Code	85340	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Level	11-12	Prerequisite(s)	Electricity I					
				, , , , , , , , , , , , , , , , , , , ,	entilation and air co oblems in electrical) systems. Students ts and equipment
control circuitry.								
control circuitry.				le efferre d'alere	to an alticle for the sec	· · · · · · · · · · · · · · · · · · ·		
	-	historical st			to multiple factors			
AHS	-		udent interes	st, availability	to multiple factors of certified staff, and e should see their s	nd/or current		ources.

					High School Cre	edits	2	Graduation	
			MCPS		Weighted			Requirement	
ELECTRICITY III			Course Code	85350	Credit Type	CTE		CTE Credential Tests(s) May Be Required	
Grade Level	12	Prerequisite(s)	Electricity	11				·	
applications, with	a special ei	mphasis on the ele	ctrical aspe	cts of heating ve	ethods used in resid entilation and air co oblems in electrical	onditioning (H	IVAC)) systems. Students	
AHS BHS				2 22	to multiple factors				
CHS					of certified staff, a se should see their :			ources.	
EMHS									

OTHER COURSES

ECONOMICS & PERSONAL FINANCE		MCPS		High School C Weighted	redits	1	Graduation Requirement	~		
		Course Code	6120V	Credit Type	Required Elective		CTE Credential Test(s) May Be Required			
Grade Lev	el	9-12	Prerequisite(s)	None					-	
decisions	related	l to career	ts learn how to n exploration, but ving independen	dgeting, ba	anking, credit, in	isurance, spen	ding, taxes, sav	ving		
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

				High School C	redits	1	Graduation			
	יווס חי			MCPS Course	76400	Weighted			Requirement	
ADVANCED PHYSICAL EDUCATION		Code		Credit Type	Elective		SOL Test(s) Required			
Grade Leve		9-12	Prerequisite(s)	Preferenc	e will be given to :	11 th and 12 th gr	aders.			
enjoyment a exercise as v flexibility ex	and the well as ercises	attainmer physical st . This cou i	nt/maintenance of rength and condit	^e personal p ioning, inclu ourse and (s participation in p hysical activity go uding weight lifting does not satisfy e l	als. Students wi g, running, agili	ill participate in ty, core and abc	vario Iomi	ous forms of nal training, and	
AHS	٠									
BHS	•									
CHS	•									
EMHS •										

		MCPS		High School C	redits	1	Graduation		
UNIFIED PHYSIC	CAL FDUC	ΔΤΙΟΝ	Course	77100	Weighted			Requirement	
UNITED FITISICAL EDUCATION		Code	//100	Credit Type	Elective		SOL Test(s) Required		
Grade Level	9-12	Prerequisite(s)							
Course Description including lifetime a variety of physical a more inclusive an Students cooperate	activities, pl activities. T nd acceptin	hysical fitness, and Through ongoing le g school environm	l sport. Stud eadership o nent for all s	dents will work to pportunities, mer students.	gether to increa	se competence	and	confidence in a	

• Engage in activity specific skills

- Apply sports rules and strategies to a variety of activities
- Increase their physical fitness
- Explain how to make better health and lifestyle choices
- Improve their social, emotional, and mental wellness

Note: Unified PE is a fully inclusive program that consists of a population of half of the students with a disability, and half without a disability. It is taught by a certified physical education teacher. All students enter the elective course on equitable social footing where everyone receives a physical education <u>elective</u> credit. HPE 9 & HPE 10 are courses required for graduation. **This course does** <u>not</u> substitute for either of these required courses. This course may be repeated for duplicate credits.

AHS	•	
BHS	•	May be offered at any high school based on sufficient student interest/demand
CHS	•	and the availability of qualified staff.
EMHS	•	

DE VIRGINI	DE VIRGINIA TEACHERS					High School C	Credits	1	Graduation
FOR TOMORROW /				Course	DE9062	Weighted		\checkmark	Requirement
TEACHER C	ADE	Т		Code		Credit Type CTE CTE CTE			
Dual Enrolled	~		W RIVER	NRCC Course Code(s)	EDU198	College Credi	ts	3	Tests(s) May Be Required
Grade Level		11-12	Prerequisite(s)	See Below *	:	· · ·			•

Course Description: This course introduces students to a career in teaching and education. Virginia Teachers for Tomorrow (VTfT) 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. Additional educational leadership opportunities are offered through the student organization, Educators Rising. Internships or Clinical Experiences will be provided.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

-		90620	This course may be taken by students who are not eligible to take a dual enrolled course
AHS	•		
BHS	•		
CHS	•		
EMHS	•	This cours	se requires students to attend CHS for at least a part of the school day (transportation provided).

DE VIRG				MCPS		High School C	redits	1	Graduation		
FOR TON	10RRO	WII/		Course	DE9072	Weighted		✓	Requirement		
TEACHER	CADE	TII		Code		Credit Type CTE			CTE Credential		
Dual Enrolled	~		EW RIVER	NRCC Course Code(s)	EDU200	College Credits		4	Tests(s) May Be Required		
Grade Leve	el	11-12	Prerequisite(s)	DE9062 V	'irginia Teachers fo	or Tomorrow / 1	Feacher Cadet *				
provided. * In order	to enrol	l in a DE co	ourse, students m	ust meet al	in a practicum exp I admission and co mpletion of prerec	ourse placemer	nt requirements	esta			
VIRGINIA TEACHERS FOR TOMORRC TEACHER CADET II	w II /	90720	This course may	be taken by students who are not eligible to take a dual enrolled course							
AHS	٠										
BHS	٠										
CHS	•										
EMHS	٠	This cou	rse requires stude	nts to atter	nd CHS for at least	a part of the sc	hool day (transp	oorta	ation provided).		

ENTREPRENEURSHIP EDUCATION				MCPS Course 909 Code		High School Cre Weighted	dits	1	Graduation Requirement
					90930	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Lev	vel	9-12	Prerequisite(s)						
	-				-	of creating, owning		-	
Students	will learr	i concepts a	and techniques for	planning an	innovative bu	siness and living the	entreprenet	iriai i	ifestyle
Students AHS	•		and techniques for	planning an	innovative bu	siness and living the	entreprenet	uriai i	ifestyle
	• •			planning an	innovative bu	siness and living the	entreprenet	uriai i	ifestyle
AHS	•			planning an	Innovative bu	siness and living the	entreprenet	ILIALI	ifestyle

			pery County Public			High School C	redits	1	Graduation	
	TERNSHIP WORKFOCUS		MCPS		Weighted			Requirement		
INTERNS			Course Code	INTERN	Credit Type	WBL Elective		CTE Credential Tests(s) May B Required		
Grade Lev	el	9-12	Prerequisite(s)							
school yea Virginia's 5 these skills MCPS offe Based Lean	Course Description: High-Quality Work-Based Learning experiences enable students to apply classroom instruction in a real-world business or service-oriented work environment and are available throughout the year. While many students work during the school year, experiences are also available during the summer months. High-Quality Work-Based Learning experiences reinforce Virginia's 5 C's—critical thinking, collaboration, communication, creative thinking, and citizenship—by allowing students to apply these skills in a real-world business or service-oriented work environment. MCPS offers Work-Based Learning opportunities in accordance with the <u>Virginia Department of Education's CTE High-Quality Work-Based Learning Guide 2023-2024</u> . Students enrolled in this experience will be assigned grades according to the MCPS A-F grading scale.									
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

						High School C	redits	1	Graduation
	SERVICE LEARNING		MCPS		Weighted			Requirement	
SERVICE LEARNING		Course Code	98280	Credit Type	Local Elective		CTE Credential Tests(s) May Be Required		
Grade Leve	el	11-12	Prerequisite(s)						
improve th participatir	e comm ng in cor tressing	nunity, cont mmunity se the comm	rvice. Students ide	owth, and o entify an in	develop a lifelong terest and a comn	ethic of service. nunity need, stu	Service learnin Idents develop	g go and o	sonal skills to es beyond students complete a service xperience, students
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

COOPERATIVE EDUCATIO	N County P.		BUSCO AGRCO MKTCO	High School C Weighted	redits	1	Graduation Requirement
WORK EXPERIENCE COURSES (Program Specific)	Centified Workhoad	MCPS Course Code	FCSCO FCSCO HOCCO TAICO TEDCO	Credit Type	Local Elective		CTE Credential Tests(s) May Be Required

 Grade Level
 11-12
 Prerequisite(s)

 Course Description:
 Cooperative Education work experience combines career and technical classroom instruction with paid

 employment directly related to the classroom instruction. Cooperative Education work experience is available through most high

 school CTE courses.
 Course using the cooperative education method integrate classroom instruction with supervised on-the-job

 training and the related career and technical student organization.
 Instruction is developed and conducted in consultation with

 employers having skills and considerable knowledge of the occupational field represented by the student's career objective.

 Individualized, written training plans are developed to correlate the classroom instructions with the on-the-job training. Formal and

 informal evaluations of student progress including feedback are completed to assist learners in improving their work performance.

 Cooperative Education experiences must be supervised by a CTE teacher who has completed the required Cooperative Education

 teacher training provided by the VDOE.

 COOP Experience can only be scheduled when paired with the appropriate subject area

 CTE Offering.

 Duration:
 396 hours on the job

AIIS	
BHS	Not currently offered due to multiple factors, including
CHS	historical student interest, availability of certified staff, and/or current resources.
EMHS	Students interested in this course should see their school counselor.

			MCPS		High School Cre Weighted	edits	1	Graduation Requirement	
INTRODU EMPLOYI		I TO EDUCATION FO	R Course Code	90780	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required	
Grade Leve	el	Prerequisite	(s)					-	
continuing behaviors o life-skills. T	educati and care his cour	This course introduces on choices. These choice er-research, job-acquisit se is designed for studen courses within career clu.	es are required to ion, workplace-c ts needing workp	successfully tr ommunication	ansition to the work self-awareness, se	kplace. Stude If-advocacy, c	nts c custo	re taught ethical mer-service, and	
AHS									
BHS		bistovis		7	to multiple factors	,			
CHS					of certified staff, a			ources.	
EMHS	IHS Stud			lents interested in this course should see their school counselor.					

				MCPS		High School Credits Weighted		1	Graduation Requirement
EDUCATION FOR EMPLOYMENT		Course Code	90850	Credit Type	CTE	1	CTE Credential Tests(s) May Be Required		
Grade Level		9-11	Prerequisite(s)						
Course Descri	otion:	This coul	rse teaches studen	ts to make in	nformed career	and continuing e	ducation choice	es as	they transition
			ills, and adapt to t unication, self- aw					reer-	research, job-
AHS									
BHS					2 22	to multiple facto	, ,		
CHS	historical				of certified staff,			ources.	
EMHS	AHS Stud			dents interested in this course should see their school counselor.					

			oomery County Public 5			High School C	Credits	1	Graduation
STUDENT RESEARC		ARCH		MCPS		Weighted			Requirement
	PROJECT		Certified Work Beady	Course Code	98260	Credit Type	Local Elective		
Grade Leve	el	11-12	Prerequisite(s)						
research pu the fall, the continue th Virginia Jur experience outside of	roject f e stude nrough nior Aca e. Stude	or the stude nt will start out the wint ademy of Sc ents may eit	the formal researd er and spring, culr iences. It is necess her have a period	mmer, the ch project o minating in sary to doc during the	student will work committing at leas regional science f ument a minimum school day to wor	informally, on a t three hours a air participation n of 150 clock h k on their resea	a relaxed schedu week to the pro- n and the submi- ours to receive a arch project, and	ile, v ject ssior a cre d/or	with the mentor. In . The research will n of a paper to the edit for this
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

				MCPS	550006	High School Credits Weighted		1 ✓	Graduation Requirement
DE RESEA	KCH I			Course Code	DE9826	Credit Type	Local Elective	•	SOL Test(s) Required
Dual Enrolled	✓		EW RIVER	NRCC Course Code(s)	SCT 198	College Credit	S	1	
Grade Leve		11-12	Prerequisite(s)	See Below	· *				
approaches * In order t	to the o enro	selection a		er opportur ust meet all	nities in the field admission and o	are required.	t requirements	s esta	nd a study of ablished by NRCC rry with it a fee to
AHS									
BHS	•	Intended	for students takin	g their 1 st ye	ear of DE Resear	ch but not concu	rrently enrolled	d in A	AP Research
CHS									
EMHS									

				MCPS	DE0027	High School Cr Weighted	edits	1 ✓	Graduation Requirement
DE RESEAI	KCH I	1		Course Code	DE9827	Credit Type	Local Elective		SOL Test(s) Required
Dual Enrolled			THE RIVER	NRCC Course Code(s)	SCT 298	College Credit	5	1	
Grade Level		11-12	Prerequisite(s)	DE Resear	ch I *				
approaches * In order to	to the enro	selection a	-	er opportui ust meet al	nities in the field admission and	are required.	t requirement	s esta	nd a study of ablished by NRCC rry with it a fee to
AHS									
BHS	•	Intended	for students takin	g their 2 nd y	ear of DE Reseau	rch but not concu	rrently enrolle	d in A	AP Research
CHS									

STUDY HALL			MCPS Course	01011	High School Cr Weighted	redits	Graduation Requirement
			Code		Credit Type	No Credit	
Grade Level	9-12	Prerequisite(s)					
load in order to	have a period should other	proved at the discr d in which to work wise be encourage nedule.	on school a	ssignments and/	or seek assistanc	e from a teacher v	with their school
AHS •							
BHS •							
CHS •							
EMHS •							

EMHS

	STUDENT AIDE					High School Cr	edits	Graduation	
STUDENT				Course	01010	Weighted		Requirement	
				Code		Credit Type	No Credit		
Grade Leve	el	9-12	Prerequisite(s)						
Description	n: Stude	ent Aide pla	acement is approv	ed at the di	scretion of the l	building principal f	or students who a	do not wish to take	ea
full course	load an	d who wish	to provide assista	ance to a tea	acher, the guida	ince office, the ma	in office, athletic	trainer, etc.	
Students w	vill NOT	receive WI	BL credit for servi	ng as Stude	nt Aides.				
AHS	٠								
BHS	•								
CHS	٠								
EMHS	٠								

AP Capstone[™] Program

AP Capstone[™] is an innovative diploma program from the College Board that equips students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges. AP Capstone is built on the foundation of two AP courses — AP Seminar and AP Research — and is designed to complement and enhance the in-depth, discipline-specific study experienced in other AP courses. In **AP Seminar**, students investigate real-world issues from multiple perspectives, gathering and analyzing information from various sources in order to develop credible and valid evidence-based arguments. In **AP Research**, students cultivate the skills and discipline necessary to conduct independent research in order to produce and defend a scholarly academic thesis. Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing will receive the AP Capstone Diploma. Students who earn scores of 3 or higher in AP Seminar and Research Certificate. AP Seminar and AP Research but not on four additional AP Exams will receive the AP Seminar and Research Certificate. AP Seminar may also be taken as a stand-alone option.

IN ORDER TO OFFER THE FOLLOWING COURSES, SCHOOLS MUST APPLY THROUGH THE AP PROGRAM AND BE APPROVED BY THE COLLEGE BOARD AS AN AP CAPSTONE SCHOOL.

			MCPS		High School C	Credits	1	Graduation
AP SEMINAR		A	Course	9099A	Weighted		\checkmark	Requirement
			Code		Credit Type	Elective		
Grade Level	11-12	Prerequisite(s)						
complexities of students practi viewing speech synthesize info deliver oral and the power to a	academic and ce reading and es, broadcasts mation from visual presen nalyze and eva	d real-world topics d analyzing articles s, and personal acc multiple sources, o Itations, both indiv aluate information	and issues s, research s counts; and develop the vidually and with accur	by analyzing diver studies, and found experiencing artis ir own perspectiv I as part of a team acy and precision	gent perspectiv lational literary stic works and p es in research-b . Ultimately, the in order to craft	ves. Using an inc and philosophic performances. St pased written es e course aims to t and communic	quiry cal te tude says equ cate e	exts; listening to and nts learn to , and design and ip students with
AHS								
BHS •								
CHS								
EMHS								

				MCPS		High School C	redits	1	Graduation		
AP RESE	ARCH		A	Course	9826A	Weighted		\checkmark	Requirement		
				Code		Credit Type Elective					
Grade Leve	el	11-12	Prerequisite(s)	Students	must have succes	sfully completed	d the AP Semina	ar co	urse.		
question. employing Students e work in a p	In this c ethical xplore t oortfolio	ourse, stud research pr heir skill de . The cours	ents further their ractices; and acces evelopment, docus se culminates in a	skills acqui ssing, analy ment their n academic	zing, and synthesi	inar course by u zing informatior rate the artifacts 200 words (acco	nderstanding re as they addres s of the develop	eseai ss a r omer	rch methodology; esearch question. it of their scholarly		
AHS											
BHS	•	Intended	for students takin	ng AP Resea	rch but not concu	rrently enrolled	in DE Research				
CHS											
EMHS											

				MCPS		High School C Weighted	redits	1 ✓	Graduation Requirement	~		
DE/AP R	ESEAR	CHI		Course Code	DE9826A	Credit Type	Science (Chemistry))	SOL Test(s) Required			
Dual Enrolled	~		EW RIVER	NRCC Course Code(s)	SCT 198	College Credi	ts	1				
Grade Lev	el	11-12	Prerequisite(s)	See Below	v *	·			·			
Course De	scription	n: This cou	urse combines 982	6A and DES	9826							
AHS												
BHS	•	Intended	nded for students taking AP Research while concurrently enrolled in their 1 st year of DE Research									
CHS				<u> </u>		•	,					
EMHS												
required to period esta requireme	o enroll a ablished nts esta	as an NRCO by NRCC. blished by	groups of students C student and must * In order to enro NRCC (see pages a fee to NRCC.	be register II in a DE co	red for the corres ourse, students m	ponding NRCC c nust meet all ad	ourse(s) by the mission and cou	end Irse	of the drop/add placement			
teach the A course(s) a	AP cours is well as	e. The construction of the	MCPS high school ntent of combined om the College Boa ing AP exam. Upo	DE/AP cour rd Advance	rses will include a d Placement Prog	ll topics from th gram for the AP	e syllabus of the course necessar	e cor ry fo	responding NRC r students to be	C		

NRCC and may choose to take the AP exam, if desired.

					MCPS		High School C	redits	1	Graduation	~
DE/AP R		рсц		AP	Course	DE9827A	Weighted		\checkmark	Requirement	
DE/AP N	ESEA	псп		2 1		DL9027A		Science		SOL Test(s)	
					Code		Credit Type	(Chemistry)	Required	
Dual Enrolled	✓ ✓ NRCC Course Code(s) SCT 298 College Credits					ts	1				
Grade Lev	el	1	1-12	Prerequisite(s)	See Belov	v *	•			•	
Course De	script	ion: T	his cou	urse combines 982	26A and DES	9827					
AHS											
BHS	•	Int	tended	for students takin	g AP Resea	rch while concur	rently enrolled ir	n their 2 nd year o	of DE	Research	
CHS											
EMHS											
required to period est	o enro ablish ents e	oll as a ed by stablis	n NRCO NRCC. hed by	groups of students C student and mus * In order to enro NRCC (see pages	t be registe Ill in a DE co	red for the corre ourse, students r	sponding NRCC o nust meet all ad	ourse(s) by the mission and co	end urse	of the drop/add placement	I

DE/AP courses are taught by MCPS high school faculty who have met both the qualifications to teach at the college level and to teach the AP course. The content of combined DE/AP courses will include all topics from the syllabus of the corresponding NRCC course(s) as well as topics from the College Board Advanced Placement Program for the AP course necessary for students to be prepared for the corresponding AP exam. Upon successful completion of a DE/AP course, students will receive college credit from NRCC and may choose to take the AP exam, if desired.

VIRTUAL VIRGINIA

Virtual Virginia courses (VVA) are offered for students who are unable to take certain courses at their home school due to availability or scheduling conflicts. A complete list of available course offerings are listed below by content area. In order to complete a virtual class, students will attend their home school's Virtual Education Lab during an established time, or complete the work outside of the regular school day (scheduled as a "0 Period"). While in the lab, students will have online access to the teacher and limited tutorial help from lab staff. Because virtual education is an independent self-paced course, successful students will possess the ability to effectively organize and manage time.

Students in high school (grades 9–12) who meet the course prerequisites and have approval from the principal may enroll in courses in Virtual Virginia's supplemental program through their school counselor. Course prerequisites are established by Virtual Virginia. All students must register for, and participate in, required assessments that correspond to their Virtual Virginia courses at their local school.

Students enrolled in a high school in MCPS will be approved to take Virtual Virginia courses as "internal" courses only if one or more of the following criteria are met:

- 1. The course(s) is/are not offered at the local school
- 2. A scheduling conflict within the school prevents the student from accessing the desired class and cannot be resolved any other way.
- 3. The course(s) must be taken during a designated instructional period during the regular school day.

All other Virtual Virginia courses will be considered as "external" courses and will be subject to all related policies (See pages 202-205).

NOTE: Only students enrolled in the **MCPS Virtual School Program** will be permitted to enroll in Virtual Virginia's full-time program. All courses approved to be taken as part of the **MCPS Virtual School Program** will be treated as "internal" courses and will not be subject to any limitations described below.

Virtual Virginia courses typically fill to capacity quickly. Students are encouraged to register for these classes as soon as possible.

To see a list of courses offered through Virtual Virginia, and when they are being offered, please go to their website: https://www.virtualvirginia.org/courses/high-school/

INTERVENTION COURSES

MCPS provides a comprehensive academic program to promote the achievement of every student. A key component of our program is ensuring that all secondary students are placed in courses that deliver an appropriate level of challenge. All MCPS high schools collect and analyze multiple pieces of student data in order to make course placement decisions, including grades, SOL test scores, performance on screening assessments, and teacher recommendations.

To address the needs of students who have struggled to meet SOL requirements, MCPS provides needs-based, high school classes to prepare students for success. Parents will be informed of placement decisions for the coming school year prior to the end of the current school year.

MCPS offers different types of courses to provide additional instructional time for students to develop, understand, and apply the concepts and skills of a course, or to develop/strengthen skills and strategies so that they can be successful in high school classes:

Some courses may be split into a two-course sequence course (i.e. Algebra I, Part 1 & Part 2) to provide additional instructional time for students to develop, understand, and apply the concepts and skills of the course. The complete curriculum is taught over the span of the two-course sequence, typically a 90-minute block each semester within the same school year. To earn the credit necessary to meet graduation requirements, students must successfully complete both parts of the two-course sequence.

Supplemental courses (i.e. Algebra I, Part 1 Supplemental and English 9 Supplemental) are available for pairing with some courses to provide students with additional time and intervention strategies to develop/strengthen the necessary skills and strategies to be successful in the course and as they study the curriculum.

Stand-alone reading courses (Literacy Lab) are available at each grade level for those students continuing to struggle with reading. These courses are designed to provide instruction in foundational reading skills to support students in their high school courses. Instruction focuses on word recognition skills, phonological awareness, developing reading fluency, and the language comprehension skills of questioning, visualizing, connecting, predicting, summarizing and monitoring understanding.

English Intervention Classes

To address the needs of students who have struggled to meet SOL Reading and Writing Test requirements, MCPS provides needs-based, high school classes to prepare students for success. Students are assigned to classes based on SOL test scores and performance on a screening assessment. Parents will be informed if their student has met the placement criteria.

ENGLISH	NGLISH 9			MCPS Course	15150	High School Credits Weighted			Graduation Requirement	
SUPPLE	JPPLEMENTAL				15150	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Lev	/el	9	Prerequisite(s)	None						
they study	/ the nin ing as we	th-grade cu ell as hands	rse is for entering Irriculum. The clas -on lessons that a	ss will empl	hasize reading and	d study strategie	es, allowing time	e for	sustained silent	
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

ENGLISH	NGLISH 10		MCPS	15160	High School Credits Weighted		1	Graduation Requirement		
SUPPLEI	MENTA	L		Course Code	15100	Credit Type	English Electi	ive	SOL Test(s) Required	
Grade Lev	/el	10	Prerequisite(s)	English 9						
process w	/ill be em	phasized to	mmar, reading con o prepare students glish 10 in a year- l	for the En	glish 11 writing SC				-	s.
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

ENGLISH	IGLISH 11	MCPS		High School C Weighted	credits	1	Graduation Requirement		
SUPPLEN	MENTA	L		Course Code		Credit Type	English Electi	ve	SOL Test(s) Required
Grade Lev	el	11	Prerequisite(s)	English 10 English SC). Recommended)L tests.	for students at	risk of not pass	ing o	ne or both EOC
skills nece vocabulary graphic (e	ssary to y, spellir .g., map:	be successf ng, and com s, charts, ta	ful on the Grade 1	1 EOC Read ore compor print and c	ing and Writing Some nents of the course online and will dev	OL tests. Grami e. Students wil	mar, reading co I read fiction, no	mpre onfic	tion, functional and
AHS									
BHS	•								
CHS	•								
EMHS	•								

ENGLISH	NGLISH 12		MCPS Course		High School Credits Weighted		1	Graduation Requirement		
SUPPLEN	1ENTA	L		Code		Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Leve	el	12	Prerequisite(s)	0	I. Recommended sh SOL tests.	for students wh	no did not pass o	one o	or both Grade 11	
strategies t vocabulary graphic (e.	o devel , spellin g., maps	op the reac g, and com s, charts, ta	rse provides stude ding and writing sk position are the co bles) texts both in with English 12 in	ills necessa ore compor print and c	ry to be successfunction of the course online and will dev	ll on these tests e. Students wil	s. Grammar, real l read fiction, no	ading onfict	; comprehension tion, functional a	,
AHS										
BHS	•									
CHS	•									
EMHS										

	ITERACY LAB 9				MCPS High School Credits Course 15151 Weighted				Graduation Requirement	
LITERACY LA	ВЭ			Code	15151	Credit Type	SOL Test(s)			
Grade Level		9	Prerequisite(s)	None						
support studer	its ii /, ar	n their high 1d the langu	rse is a stand-alon school courses. I uage comprehensi	nstruction	will focus on word	d recognition ski	ills, phonologica	law	areness, develop	
AHS •)									
BHS)									
CHS										
EMHS)									

	ITERACY LAB 10			MCPS —		High School Credits Weighted		1	Graduation Requirement	
LITERAC	Y LAB 1	10		Course	15152	Credit Type	English Electi	SOL Test(s) Required		
Grade Lev	el	10	Prerequisite(s)	None						
	uency, ar	nd the lang	school courses. I uage comprehensi			-	· · ·			oing
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

	ITERACY LAB 11		MCPS	15155	High School C Weighted	Credits	1	Graduation Requirement		
LITERAC	Y LAB 1	.1		Course 15155 Code Credit Type English Elective				ve	SOL Test(s) Required	
Grade Lev	el	11	Prerequisite(s)	None						
support st	udents i iency, ar	n their high 1d the langu	rse is a stand-alon school courses. I uage comprehensi	nstruction	will focus on word	recognition ski	ills, phonologica	l aw	areness, developi	
AHS	•									
BHS	•									
CHS	٠									
EMHS	•									

	ITERACY LAB 12		MCPS	High School C Weighted	High School Credits Weighted		Graduation Requirement			
LITERAC	ILAD.	LZ		Code	12120	Credit Type	ve	SOL Test(s) Required		
Grade Lev	el	12	Prerequisite(s)	None						
• •	uency, a	nd the lang	n school courses. I uage comprehensi			-			•	oing
AHS	•									
BHS	•									
CHS	•									
EMHS		1								

		MCDC		High School C	credits	1	Graduation	
	ATECIES	MCPS	00204	Weighted			Requirement	
LEARNING STR	ATEGIES	Course Code	98284	Credit Type	Local Electiv	'e	SOL Test(s) Required	
Grade Level	Prerequisite(s)							
personalized conte an opportunity to be provided the op Students enrolled for credit.	n: This elective course is struc ent curriculum, and independe practice and apply a variety c oportunity to explore, practice in this course will be assigne	ent learning of Pathway I e, and apply	opportunities. 7 Learning Strategi selected curricul	The objectives of es to enhance th ar resources to s	the course/s wi neir academic su strengthen their	ill be icces aca	to provide stude s. They also wil demic skills.	
AHS BHS CHS EMHS		u <mark>dent inte</mark> re	ntly offered due t est, availability o ted in this course	f certified staff,	and/or current		ources.	

		MCPS		High School (Credits	1	Graduation	
	MINAD		98285	Weighted			Requirement	
FRESHMAN SEI	VIIVAR	Course Code	30203	Credit Type	Local Electiv	'e	SOL Test(s) Required	
Grade Level	Prerequisite(s)							
to high school. Stu	n: Freshman Seminar is a cla. Idents will develop positive can Id study skills. The goal of Fr	onnections, i	nterpersonal sk	ills, team leaders	hip negotiation	s, or	ganizational,	UII
AHS BHS CHS		u <mark>dent int</mark> ere	st, availability	to multiple facto of certified staff, e should see thei	and/or current		ources.	
EMHS	Stude	ms mieresu		e should see then	School Courise	101.		

Math Intervention Classes

MCPS provides a comprehensive mathematics program to promote the achievement of every student. A key component of our program is ensuring that all secondary students are placed in mathematics courses that deliver an appropriate level of challenge. All MCPS high schools collect and analyze multiple pieces of student data in order to make placement decisions, including grades, test scores, and teacher recommendations. Parents will be informed of mathematics placement decisions for the coming school year prior to the end of the current school year. Students who have successfully completed Algebra II may register for elective Mathematics courses of their choosing.

				14000		High School C	credits	1	Graduation	
ALGEBR/	\ I, РА F	RT 1		MCPS Course	31330	Weighted			Requirement	
SUPPLEN	PLEMENTAL Code Credit Type Math Elective Sisson Required							SOL Test(s) Required		
Grade Leve	el	9	Prerequisite(s)							
study of Al prerequisit	gebra. I te and ci	Jsing asses urrent math	rse is for entering sment and interven n concepts and sk mplete Algebra I,	ention strat lls. This co	egies, this course urse is paired wit	will provide ins h Algebra I, Par	truction and tar t 1 in a year-lor	gete		r
AHS	•		ing school year O		•				ng (45-min) cours followed by AFD	
BHS	•		who successfully of school year which	•	•		Part 2 as a Sem	este	er I course the	
СНЅ	•		ing school year O		•		•		ng (45-min) cours followed by AFD.	
EMHS	•		who successfully of school year which		•		Part 2 as a Sem	este	er I course the	

ALGEBR	ALGEBRA I		MCPS Course 31310 High School Credits Weighted	1	Graduation Requirement	~				
PART 1				Code	31310	Credit Type			SOL Test(s) Required	
Grade Lev	vel	9	Prerequisite(s)							
of the two	o-course		apply the concepts To earn a Math ci uence.		•				•	
AHS	•									
	•									
AHS	•									

ALGEBR			MCPS	31320	High School Cre Weighted	edits	1	Graduation Requirement	~	
PART 2				Course Code	31320	Credit Type	Math		SOL Test(s) Required	~
Grade Lev	el	9-10	Prerequisite(s)							
the span o	of the tw	o-course se	equence. Algebra I	Part 2 inclu	des a review of	bra I. The complet the Algebra I Part t 2 of the two-cou	1 content. To	earr	-	
AHS	•									
BHS	•									
CHS	•									

GEOMET	GEOMETRY PART 1			MCPS	21.440	High School C Weighted	redits	1	Graduation Requirement	
PART 1				Course Code	31440	Credit Type	edit Type Math Elective SOL Tes Require			
Grade Leve	el	9-10	Prerequisite(s)							
to develop, span of the	, unders e two-co	stand, and a ourse seque	rse is the first of a apply the concepts nce. To earn a M ourse sequence.	and skills o	of Geometry. The	e complete Geor	netry curriculur	n is t	aught over the	ents
AHS	٠									
BHS	•									
CHS	•									
EMHS	•									

GEOME	EOMETRY		MCPS Course 31450 High School Credits Weighted		edits	1	Graduation Requirement	~		
PART 2				Code	31450	Credit Type	Math		SOL Test(s) Required	~
Grade Lev	vel	9-10	Prerequisite(s)							
the span of	of the tw	o-course se	and, and apply the equence. Geometr r ements, students	y Part 2 incl	udes a review of	f the Geometry Pa	rt 1 content. 1	o ea	rn a Math credit	
	•									
AHS										
AHS BHS	•									
	•									

PROJECT AIM

Project AIM (Academic Intervention Model) is a collaborative endeavor among the four Montgomery County High Schools to assist students who have encountered "roadblocks" on the path to graduation.

Through Project AIM, students are provided with an opportunity to work on individualized coursework using Edmentum courseware and supplemental resources that allows them to recover course credit in a course they are failing or have failed by demonstrating mastery of course content. Students who have fallen behind their graduation cohort may take courses required for graduation through Project AIM in order to graduate on time. Edmentum courseware can also be used to provide remediation to students prior to taking a retest of an EOC test required for graduation.

A school-based team screens all referrals to determine student eligibility and potential for success, and then forwards their recommendations to the MCPS Director of Secondary Education for review and final approval. Once a student is approved for Project AIM, the school counselor will review the student's transcript and confer with the principal to develop an on-time graduation plan with the student. Based on this plan, the student's class schedule will be changed to include the appropriate combination of courses that will allow the student the opportunity to graduate on time. The SAP Team will monitor the student's progress to determine if any additional resources and support are needed to ensure the student's success on his/her path to graduation.

Because all Project AIM courses are online, they provide flexible scheduling options. Most students will have time designated in their schedule during the regular school day to work on Project AIM coursework in their home school's Virtual Ed Lab; however, students also may work on Project AIM coursework from home or anywhere else they have access to a computer with high-speed internet. Students who complete most or all of their Project AIM coursework off-site must meet with an assigned teacher on a scheduled basis. Exactly how often and where the students take Project AIM courses will be determined as part of each individual's on-time graduation plan.

To be eligible for Project AIM, students must be enrolled in a Montgomery County high school. They remain enrolled at their home school and have all of the same rights and responsibilities as all other students. While on the school campus, Project AIM students must follow all MCPS policies and school rules. They also will be afforded all of the opportunities to which other students have access. To participate in VHSL activities, Project AIM students must meet the requirements of the Virginia High School League; the school administration will determine student eligibility based on VHSL regulations.

NOTE: The intent of Project AIM is <u>NOT</u> to resolve scheduling problems. The appropriate solutions to scheduling problems are Virtual Virginia, external courses, etc.

Project AIM teachers will design an appropriate individualized plan of study for each student as follows:

CREDIT INTERVENTION: Students for whom failure in a course required for graduation is imminent after enrollment in \leq 50% of the course.

CREDIT RECOVERY: Students who have previously failed a course, but have passed the EOC SOL test. Students who have previously passed a course, but have not yet passed the EOC SOL test may be assigned specific work in Edmentum for remediation prior to taking a retest. Students who have failed both a course and the EOC SOL test will need to retake the course in Summer School or the following term if the course is required for graduation. These students may be considered for Project AIM Credit Acquisition, if part of an on-time graduation plan developed by the principal or SAP Team.

CREDIT ACQUISITION: Students who need additional course credits in order to graduate with their cohort may take certain Project AIM courses as <u>NEW</u> courses (with principal approval). Students who are failing a course after enrollment in >50% of the course and/or did not complete sufficient work in the original course may <u>RESTART</u> certain courses in Project AIM.



The following courses are offered for credit through Project AIM. Only approved Project AIM Courses taught by Project AIM teachers may be categorized as a Project AIM course. Additional courses may be requested by the principal and require the approval of the Director of Secondary Education. Project AIM courses are developed and taught by MCPS teachers certified in the content areas of English, Mathematics, Science, Social Studies, Fine Arts, and CTE. All courses align with the Virginia Standards of Learning. Students must take required End-of-Course (EOC) SOL tests associated with a Project AIM Course.

Course	Course Code	Course Description	Project AIM Teacher's Home School
ENGLISH 9	PA1130	Same as 11300 except the course is taught through Project AIM. One English Credit	
ENGLISH 10	PA1140	Same as 11400 except the course is taught through Project AIM. One English Credit	СНЅ
ENGLISH 11	PA1150	Same as 11500 except the course is taught through Project AIM. One English Credit	CIIS
ENGLISH 12	PA1160	Same as 11600 except the course is taught through Project AIM. One English Credit	
WORLD HISTORY/ GEOGRAPHY I	PA2215	Same as 22150 except the course is taught through Project AIM. One History/Social Studies Credit	
VIRGINIA & U.S. HISTORY	PA2360	Same as 23600 except the course is taught through Project AIM. One History/Social Studies Credit	EMHS
VIRGINIA & U.S. GOVERNMENT	PA2440	Same as 24400 except the course is taught through Project AIM. One History/Social Studies Credit	
ALGEBRA I	PA3130	Same as 31300 except the course is taught through Project AIM. One Math Credit	
ALGEBRA, FUNCTIONS, & DATA ANALYSIS	PA3134	Same as 31340 except the course is taught through Project AIM. One Math Credit	ALIC
ALGEBRA II	PA3135	Same as 31350 except the course is taught through Project AIM. One Math Credit	AHS
GEOMETRY	PA3143	Same as 31430 except the course is taught through Project AIM One Math Credit	

EARTH SCIENCE	PA4210	Same as 42100 except the course is taught through Project AIM. One Earth Science Credit				
BIOLOGY I	PA4310 Same as 43100 except the course is taught through POject AIM. One Biology Credit		BHS			
BIOLOGY II ECOLOGY	PA4340	Same as 43400 except the course is taught through Project AIM. One Biology Credit				
HEALTH & PHYSICAL EDUCATION 9		Same as 73000 except the course is taught through Project AIM. One HPE Credit	Any Teacher Certified in HPE			
HEALTH & PHYSICAL EDUCATION 10	PA7410	Same as 74050 except the course is taught through Project AIM and does not include Driver's Education. One HPE Credit	at Student's Home School			
INTRO TO FINE ARTS	PA9198	Same as 91980 except the course is taught through Project AIM. One Credit	MONT CENTRAL			
ECONOMICS & PERSONAL FINANCE	PA6120	Same as 61200 except the course is taught through Project AIM One Credit	AHS			
WORD PROCESSING PA6625		Same as 66250 except the course is taught through Project AIM. One CTE Credit	Any Teacher Certified in Word Processing at Student's Home School			

SPECIAL EDUCATION COURSES

The Special Education Program is designed for students who are eligible for an Individualized Education Plan (IEP) based on formal evaluation and determination of eligibility by the IEP Committee. Each student's IEP team will determine which of the following courses will be included in a student's Program of Studies.

FUNCTIONAL ENGLISH 9 Grade Level 9 Prerequisite(s)			MCPS Course Code	78710	High School Credits Weighted		1	1 Graduation Requirement		
					Credit Type	Elective		SOL Test(s) Required		
			None							
Course De	-		nce-based English	/Language	Arts program emp	phasizing essentia	al reading, wri	ting,	and speaking skill	S
and drive	n by the	Individual E	ducation Plan.							
and drive	n by the	Individual E	ducation Plan.							
	- <u> </u>	Individual E								
AHS	•	Individual E	ducation Plan.							

FUNCTIONAL ENGLISH 10		MCPS Course Code	78711	High School Credits		1	Graduation			
				Weighted			Requirement			
				Credit Type	Elective		SOL Test(s) Required			
Grade Level 10 Prerequisite(s)			None							
Course Description: A relevance-based English/Language Arts program emphasizing essential reading, writing, and speaking skills								lls		
and driven by the Individual Education Plan.										
AHS	•									
BHS	٠									
CHS	٠									
EMHS	٠									

FUNCTIONAL ENGLISH 11		MCPS Course Code	78712	High School Credits Weighted		1	Graduation Requirement			
				Credit Type	Elective	Elective Re				
Grade Level 11 Prerequisite(s)			None							
Course De	Course Description: A relevance-based English/Language Arts program emphasizing essential reading, writing, and speaking skills								lls	
and driven	by the	Individual E	ducation Plan.							
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

FUNCTIO	FUNCTIONAL ENGLISH 12			MCPS Course	78713	High School C Weighted	redits	1	Graduation Requirement	
FUNCTION					78713	Credit Type	Elective		SOL Test(s) Required	
Grade Lev	vel	12	Prerequisite(s)	None						
	-		nce-based English, Education Plan.	/Language A	Arts program em	phasizing essenti	ial reading, writ	ing,	and speaking skil	s
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

						High School C	redits	1	Graduation	
FUNCTIO				MCPS	78720	Weighted			Requirement	
FUNCTIO		1AT H 9		Course Code		Credit Type Elective			SOL Test(s) Required	
Grade Leve	el	9	Prerequisite(s)	None						
Course Des driven by t	-		nce-based Math p ation Plan.	rogram em	phasizing essentia	al consumer, dai	ly living, and fu	nctio	onal skills and	
AHS	•									
BHS	•									
CHS	•									
EMHS	٠									

						High School C	redits	1	Graduation	
FUNCTIO		1ATU 10		MCPS Course	78721	Weighted			Requirement	
FUNCTIO				Code	78721	Credit Type	Elective		SOL Test(s) Required	
Grade Leve	el	10	Prerequisite(s)	None						
Course Des driven by t	-		nce-based Math p ation Plan.	rogram em	phasizing essentia	al consumer, dai	ily living, and fu	nctio	onal skills and	
AHS	•									
BHS	•									
CHS	٠									
EMHS	•									

						High School C	redits	1	Graduation	
FUNCTIO		алт ы 11		MCPS Course	78722	Weighted			Requirement	
FUNCTIO				Code	10/22	Credit Type	Elective		SOL Test(s)	
Grade Lev	al	11	Prerequisite(s)	None					Required	
Grade Lev	ei	11	Prerequisite(s)	None						
Course De	scriptio	n: A releva	nce-based Math p	rogram em	phasizing essenti	ial consumer, dai	ily living, and fu	nctic	onal skills and	
driven by	he Indiv	vidual Educ	ation Plan.	_						
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

	FUNCTIONAL MATH 12			MCPS Course		High School C Weighted	redits	1	Graduation Requirement
FUNCTIO					78723	Credit Type	Elective	J	SOL Test(s) Required
Grade Lev	vel	12	Prerequisite(s)	None					
	-	n: A releva <i>v</i> idual Educa	nce-based Math p ation Plan.	rogram em	phasizing essent	tial consumer, dai	ly living, and fu	nctio	onal skills and
AHS	•								
АПЈ		1							
BHS	•								
	•								

						High School C	redits	1	Graduation	
ELINICTIO				MCPS Course	78220	Weighted			Requirement	
FUNCTIO	INAL S	LIENCE		Code	78220	Credit Type	Elective		SOL Test(s) Required	
Grade Leve	el	9-12	Prerequisite(s)	None						
Course Des driven by t	-		nce-based Science ation Plan.	e course em	phasizing basic co	oncepts from Lif	e, Physical and	Earth	n Sciences and	
AHS	•									
BHS	•									
CHS	٠									
EMHS	•									

						High School C	redits	1	Graduation	
FUNCTIO				MCPS Course	78230	Weighted			Requirement	
FUNCTIO	INAL S	OCIAL ST	JDIES	Code	78230	Credit Type	Elective		SOL Test(s) Required	
Grade Leve	el	9-12	Prerequisite(s)	None						
	-		nce-based Social S he Individual Educ			pasic concepts of	citizenship, cor	nmı	unity, and	
AHS	•									
BHS	٠									
CHS	•									
EMHS	•									

				MACDO		High School C	redits	1	Graduation	
				MCPS Course	31200	Weighted			Requirement	
FLKSONA				Code	51200	Credit Type	Elective		SOL Test(s) Required	
Grade Leve			Prerequisite(s)	None						
Course Des	scriptio	n: This cou	rse is only offered	at Montgo	mery Central					
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

	DAPTIVE PE					High School C	redits	1	Graduation	
	ADAPTIVE PE			MCPS Course	77000	Weighted		Requirement		
ADAPIN					//000	Credit Type	Elective		SOL Test(s) Required	
Grade Lev	el 9-12 Prerequisite(s) Doctor or Special Education Recommendation						ion			
placed on moderate	, weight t dependi	raining, mo	lified sports activit otor skill developm tudent's physical ount as one of the	ient, and in challenge.	dividual sports pa		0			be
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

OCCUPA						High School C	redits	1	Graduation	
& FAMIL				MCPS Course	78960	Weighted			Requirement	
DEVELO		-		Code	78900	Credit Type	Elective		SOL Test(s) Required	
Grade Lev	el	9-12	Prerequisite(s)	None						
be taught ensure sel	through f-fulfillm	numerous ient and the	anguage skills, pe modes of hands-o e sense of belongi IT OR VOCATIONA	n activities ng to comm	. Leisure skills and nunity, home, sch	d family unit res	• • • •			111
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

				MCDC		High School C	redits	1	Graduation	
				MCPS Course	78961	Weighted			Requirement	
	& FAMILY STUDIES II / DEVELOPMENT irade Level 9-12 Prerequisite(s)			Code	78901	Credit Type	Elective		SOL Test(s) Required	
Grade Leve	el	9-12	Prerequisite(s)	None						
	-		ation of 82220. IT OR VOCATION	AL TESTING	•					
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

CONANAL				MCPS	70500	High School C Weighted	redits	1	Graduation Requirement	
COIVIIVIU	JNITAR	ASED IN:	STRUCTION	Course Code	78580	Credit Type	Elective		SOL Test(s) Required	
Grade Lev	el	9-12	Prerequisite(s)	None					· · ·	
transporta	ation, lib	raries, stor	e which provides s es, recreation facil dit attempted in s	ities) and ba	sic vocational a	and job skills.		1630		
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

ENGLISH AS A SECOND LANGUAGE (ESL)

EMHS

				MCPS		High School (Weighted	Credits	1	Graduation Requirement	
ESLI Course 5/100 Credit Type World Language St					SOL Test(s) Required					
Grade Leve		9-12	Prerequisite(s)		÷				•	•
on acquiring word order and rhythm performanc NOTE: This with the Vir earn a foreig	g skills (synta) Stude e on ar introd ginia S gn lang d unive	in listening, (). Student ents also le n English la uctory cour tate Board guage credi rsities. Also	, speaking, reading s practice oral cor arn skills to help tl nguage assessmer rse is designed for of Education's rec t for the course.	g, and writi nmunicatio hem adjust nt. students w ognition of lowever, th	ish to students wh ng and emphasize on and develop list to their new situa who are beginning ESL as a foreign la nis course may not foreign language	s vocabulary de ening compreh tion. Students to learn to spea inguage for hig satisfy foreign	evelopment and ension by learni qualify for this o ak English. The o h school graduat language requir	Eng ng s cour: offer tion.	lish grammar and ounds, intonatior se based on their ing is in keeping . Students may ents at some	 1,
AHS	•									
BHS	•									
CHS	•									

ESL II		MCPS Course	57200	High School Credits Weighted			Graduation Requirement		
			Code	57200	Credit Type	World Langua	ge	SOL Test(s) Required	
Grade Level	9-12	Prerequisite(s)							

Course Description: Students qualify for this course based on their performance on an English language assessment. The second year of ESL will further develop the four basic communications skills (speaking, listening, reading, and writing) by broadening the formal study of grammar and continued vocabulary building. Students will continue to develop their listening and reading comprehension and practice oral communication. They will develop their writing skills to communicate in their content classes and prepare for the Grade 11 Writing EOC state SOL assessment.

NOTE: Students may be assessed to enter this course without taking ESL I. This offering is in keeping with the Virginia State Board of Education's recognition of ESL as a foreign language for high school graduation. Students may earn a foreign language credit for the course. However, this course may not satisfy foreign language requirements at some colleges and universities.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

				MCDC		High School C	Credits	1	Graduation	
ESL III			MCPS Course	57300	Weighted			Requirement		
ESE III				Code	57500	Credit Type	ype World Language SOL Test(s)			
			-	coue		credit rype	World Langua	ge	Required	
Grade Leve	el	9-12	Prerequisite(s)							
expression read in Eng will also be NOTE: Stu Board of Eng for the cou	as stud glish, wi e a key c idents m ducatior	ents both v th a focus c component nay be asse n's recognit	rse will introduce write short composi- on American Litera of this course. ssed to enter this cion of ESL as a for course may not s	sitions and ture and au course with eign langua	give oral presenta uthentic informati nout taking ESL I o age for high schoo	tions on a varie onal and functio r II. This offerin I graduation. St	ety of topics. Stu onal texts. Voca ng is in keeping v cudents earn a fo	uden Ibula vith oreig	ts will continue t ary development the Virginia State an language cred	ò
AHS	•									
BHS	•									
CHS	•									
EMHS	٠									

				High School Credits	Credits	1	Graduation		
				MCPS	57210	Weighted			Requirement
ESL IV			Course 57310 Code		Credit Type	World Languag	ge	SOL Test(s) Required	
Grade Lev	/el	9-12	Prerequisite(s)						
NOTE: T school gra	his offeri iduation.	ng is in kee Students	riting skills throug ping with the Virg earn a foreign lan s and universities.	inia State Bo guage credit	oard of Education	on's recognition	of ESL as a foreig		
•									y loreign language
AHS	•								y Toreign language
	•								y tot eight anguage
AHS	-								y toreign tanguage

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APPENDIX



Request to Omit High School Credit Courses Taken in Middle School from a Student's Transcript

MCPS Policy 6-6.2 provides for the removal of high school credit courses taken in middle school from a student's transcript as follows:

- Parents/Guardians may complete the form below to request that any high school credit course taken in middle school be omitted from their child's transcript, and submit it to the high school registrar by October 1 following the completion of 8th grade. <u>If no changes are requested, please check the column "KEEP the course on my child's high school transcript</u>" for each <u>high school credit course taken in middle school</u>.
- Any high school credit course taken in middle school for which a final grade of F was reported, will automatically be removed from the student's transcript.
- When a student re-takes and completes any course in high school that was taken for high school credit in middle school, the middle school grade will automatically be removed from the student's transcript and be replaced by the high school final grade if it is higher than the middle school final grade.
- Parents of students who transfer to Montgomery County Public Schools at the beginning of the 9th grade year must request that grades for high school credit courses taken in middle school be omitted from the student's transcript within ten (10) calendar days of enrollment.

The school principal in cases of extenuating circumstances may grant exceptions to these provisions.

N	liddle School in Which Course was Taken:
St	udent Name:
A	ddress:
Р	none.

I request that the action(s) indicated below be taken for each high school credit course taken in middle school:

Course Name	Year Taken	Final Course Grade	OMIT the course from my child's high school transcript	KEEP the course on my child's high school transcript	. Pl
					be gr cr
					En wi
					gr ca

Please Note: Once a course has been omitted from a transcript, the grade, credit, and any verified credit (earned for passing an SOL End-of-Course Test) associated with that course will be removed, can no longer be counted toward graduation requirements, and cannot be restored.

Parent/Guardian Signature

Date

Revised 9/12/17

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MCPS Application/Request to Retake a Course for Grade Replacement

Students in grades 9-12 may retake any high school credit course in an effort to earn a higher grade (MCPS Policy 6-6.2). When a student retakes and completes the exact same course, the final course grade (A-F) earned for the retake course grade will replace the final course grade (B-F) previously earned in the original course. No additional credit will be granted for the successful completion of a retake course if credit was previously earned.

Please review the information from MCPS Policy 6-6.2 below carefully. Students and their parents/guardians are responsible for understanding, and must agree to, all requirements regarding Grade Replacement

Limitations: The availability of all courses through MCPS is based on sufficient student interest/demand and the availability of qualified staff each school year. Therefore, there is no guarantee that a course will be available for students to retake through MCPS in any given school year. Courses offered through MCPS also may have limited availability to students who wish to retake a course. Students taking a course for the first time will be given priority for enrollment in courses offered through MCPS that have limited capacity. A student also may not be able to enroll in a course that is offered through MCPS due to schedule conflicts.

Eligibility & Requirements: In order to be eligible for retaking a course for Grade Replacement, the student and his/her parent/guardian must agree to abide by the requirements outlined in this policy. Failure to abide by all requirements and designated deadlines for prior approval will result in failure to have the course grade replaced. Courses retaken without prior approval will not be recognized by MCPS for Grade Replacement.

- Grade Replacement only applies when a student retakes the full course at the same level as the original course (Honors, AP, etc.). The retake course can be in any format available (in-person, virtual, internal/external, etc.) and with any teacher as long as it is the same course at the same level as the original course. MCPS Policy (7-2.4) on external courses applies to retake courses.
- Once a student begins a retake course, it may be dropped only as outlined in the "Dropping Courses" section
 of MCPS Policy 6-6.2. When a retake course is dropped within the established drop window, the original
 final course grade will be restored.
- Once the established drop window has passed, the student must complete the retake course or be subject to losing credit for the course. In such cases, the original course grade and credit cannot be restored.
- Students are required to complete the retake course prior to taking the next level course in that subject
 area or the next course in a sequence. Students must complete the retake course before it can be used as a
 prerequisite for another course.
- Upon completion of the retake course, the student's transcript will reflect only the final letter grade (A-F) earned for the retake course; the original course will remain listed on the transcript with the grade of "NG".
- Upon completion of the retake course, only the letter grade (A-F) earned for the retake course will be included in the student's grade point average ("GPA"). (See MCPS Policy 6-6.3 for how GPA is calculated).
- The number of courses retaken for Grade Replacement will be limited to a maximum of 6 courses total during high school (grades 9-12).

Approval Process: Prior to retaking a course for Grade Replacement, the student must complete the MCPS Application/Request to Retake a Course for Grade Replacement form and submit it to the school counselor. After discussion with the school counselor, the form will be forwarded to the principal for approval.

> The approval process must be completed in time for the student to attend the first day of the Repeat Course class.

MCPS Application/Request to Retake a Course for Grade Replacement

Student Name:	School:	Current Grade:
Parent/Guardian Name:		_
Home Address:		_
Phone #: Email	l:	
Please provide the following information:		
Official Title of Course (and Course Number) Pre	viously Taken:	
School Year Course Taken: Start Date	e of Course:	End Date of Course:
Where was this course taken (School Name, Exter	rnal Organization Name)	?
Format of Course (i.e. In-Person, Online):	Grade Ear	ned:
Did you complete the entire course? If no	t, please explain why yo	ou did not complete the course:
Please state clearly your reason for requesting to	o retake this course for	Grade Replacement:
Official Title of Course (and Course Number) Rec	questing to Retake for G	Grade Replacement:

By signing below, we understand and agree to the requirements regarding Grade Replacement outlined in MCPS Policy 6-6.2. We also acknowledge that MCPS cannot guarantee the availability of the desired course, the understanding of the drop period and the consequences of not completing the course. The student also acknowledges the following:

- A commitment to completing the course and their agreement to have the original course grade removed from their transcript and to accept the final grade for the retake course recorded on their transcript and calculated in their GPA.
- An understanding that no additional credit will be granted for the successful completion of a retake course if credit was previously earned, and that Virginia High School League (VHSL) rules prohibit retaking a course for which a student has received prior credit from being counted toward VHSL eligibility requirements.

Student Signature:	Date:
Parent Signature:	Date:

MCPS Application/Request to Retake a Course for Grade Replacement

OFFICE USE ONLY						
Students who request to retake a course with Grade Replacement must be counseled about realistic expectations regarding their course load and schedule.						
Number of courses previously retaken for Grade Replacement:	_					
School Counselor Signature:	Date:					
Principal Signature:	Date:					
After approval, please check to ensure that all of the following has bee	en completed:					
Number of courses previously retaken for Grade Replacement verified Maximum of 6 allowed	()					
Copy of this approved form placed in student cumulative file						
Copy of this approved form provided to student and parent						
Copy of this approved form provided to the MCPS Director of Secondar	y Education					
Once the established drop window has passed, the original course grad the transcript (the original course must remain listed on the transcript)	le is changed to "NG" on					
Upon completion of the retake course, the retake course and the final le for the retake course will be on student's transcript	etter grade (A-F) earned					

Middle School Teacher Evaluation/Recommendation 8th Grade Student Applying for Art II Placement in 9th Grade

This page to be completed by the student's current middle school art teacher(s)

Stud	ent Name:	Possible Points	((Poir Circle a nu	nts Awar umber foi		v)
		Points (100) No 12 0 8 0 7 0 7 0 7 0 8 0 7 0 8 0 7 0 8 0 7 0 8 0 7 0 8 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 9 0 9 0 9 0 9 0 9 0 9 0 9 0 9 0 9 0 9	No	Below Average	Average	Above Average	Excellent
	Works independently to problem solve	12	0	3	6	9	12
Ę	Generates own ideas from given project guidelines	8	0	2	4	6	8
atio	Independently experiments with ideas	7	0	1	3	5	7
end	Independently experiments with techniques	7	0	1	3	5	7
u m	Challenges self with goals for class projects	8	0	2	4	6	8
eco	Committed to completing quality work	8	0	2	4	6	8
er R	Focus on work in class	7	0	1	3	5	7
ach	Overall maturity	7	0	1	3	5	7
ol Te	Readily accepts difficulties as challenges to overcome	7	0	1	3	5	7
hoc	Readily accepts challenges to work in a variety of media	7	0	1	3	5	7
e Sc	Ability to handle criticism of work maturely and productively	6	0	1	2	4	6
Middle School Teacher Recommendation	"Coachable": listens to and applies teacher advice/criticism	6	0	1	2	4	6
Σ	Asks for help when appropriate	6	0	1	2	4	6
	Ability to provide helpful criticism and/or discussion in group critique settings	4	0	1	2	3	4

TOTAL NUMBER OF POINTS RECEIVED

Any additional information or comments:

Please select one of the following options:

Art I will be the most appropriate course for this student to take in high school.

This student is recommended for direct admission into Art II in high school.

High School Teacher Review/Evaluation of Portfolio 8th Grade Student Applying for Art II Placement in 9th Grade

This page to be completed by the evaluating <u>high school</u> art teacher(s)

Stud	ent Name:	Possible Points	(0				v)
		Points (300) (Circle a number for each row) No Below Average Average Average Above Average Exce 30 0 7 14 21 3 54 0 13 26 39 5 27 0 6 13 20 2 27 0 6 13 20 2 27 0 6 13 20 2 27 0 6 13 20 2 27 0 6 13 20 2 30 0 7 14 21 3 27 0 6 13 20 2 30 0 7 14 21 3 31 20 2 2 2 2 2 32 27 0 6 13 20 2 32 27 0 5 10	Excellent				
	Understanding of and ability to describe contour.	30	0	7	14	21	30
M	Evidence of independent thought and creative ideas	54	0	13	26	39	54
Review	Understanding of and ability to describe proportion.	27	0	6	13	20	27
	Understanding of and ability to describe perspective.	27	0	6	13	20	27
High School Teacher Portfolio	Understanding of and ability to work with color.	27	0	6	13	20	27
cher	Understanding of and ability to work with value.	27	0	6	13	20	27
Teac	Understanding of and ability to create strong and successful compositions.	30	0	7	14	21	30
hool	Quality work created independently outside of class/school.	27	0	6	13	20	27
gh Sc	Understanding of and ability to utilize the principles of design.	21	0	5	10	15	21
Hi	Care taken to maintain presentation quality of work submitted.	15	0	3	7	12	15
	Understanding of and ability to work with a variety of media.	15	0	3	7	12	15

NUMBER OF POINTS RECEIVED (HS Teacher Portfolio Review) NUMBER OF POINTS RECEIVED (MS Teacher Recommendation) TOTAL NUMBER OF POINTS RECEIVED TOTAL NUMBER OF POINTS REQUIRED

240	

Please select one of the following options:

Art I will be the most appropriate course for this student to take in high school.

This student is recommended for direct admission into Art II in high school.

High School Art Teacher Signature

Date

Dual Enrollment Admissions and Eligibility

Information from NRCC (Effective for Fall 2022)

Virginia Community College System (VCCS) policy allows for high-school based dual enrollment partnerships. Colleges and school divisions may develop contractual agreements to offer dual enrollment program pathways, academies, and courses at the high school. Such offerings may be taught by approved high school teachers who meet Virginia Community College faculty credential requirements and are qualified by the college to teach course(s) in the program of study.

College faculty and administrators are responsible for identifying high school dual enrollment program offerings; selecting and qualifying high school faculty to teach college courses; professional development of dual enrollment faculty; and oversight and evaluation of program standards, including assessment of student learning outcomes, program learning outcomes, and instructional effectiveness.

Virginia Community College Policy 6.6 allows **high school juniors and seniors** who meet each of the following criteria to register in college-level credit-bearing courses:

- 1. The student submits an NRCC college application.
- 2. The student is a rising high school junior or senior.
 - a. The high school student has permission of the principal or designee and the parent.
- 3. The student demonstrates readiness for each college-level credit-bearing course in which they want to enroll. High school students are not eligible to enroll in developmental or direct placement co-requisite English and math courses.

In demonstrating readiness, a student must meet one of the criteria established for each type of course in which they want to be registered. **The tables below list the criteria.**

4. In addition to meeting the eligibility criteria below, a dual enrollment student must meet all course pre/co-requisites as listed in the VCCS Master Course File and established by the college at which the student is enrolled in the course.

Course Type	High School Transcript*		SAT		PSAT		ACT		VPT
Transfer**	Current		ERW score of		ERW score of		18 or higher on		Placement into
Courses	cumulative high		480 or higher		390 or higher		both English and		ENG 111
(except Math	school GPA of	or		or		or	Writing subject area	or	
and CHM 111)	3.0 or higher						tests		
Career and	Current		ERW score of		ERW score of		18 or higher		Placement into
Technical***	cumulative high		480 or higher		390 or higher		on both English and		ENF 1 or higher
Courses	school GPA of	or		or		or	Writing subject area	or	
(except Math)	2.0 or higher.						tests		
* Cumulative GI	PA may be weighte	ed o	r unweighted and	d ma	y be self-report	ed.			
** A transfer co	ourse is any course	e tha	t a college offers	and	will transcript in	n fulf	fillment of the		

requirements for a Degree or Certificate that is designed to transfer (e.g., AA, AS, AA&S, AFA, Uniform Certificate of General Studies).

*** A career and technical course is any course that the college offers and will transcript in fulfillment of the requirements for degrees and certificates that are not designed for transfer (e.g., AAS, Certificate, Career Studies Certificates).

Course	High School Transcript*		SAT		PSAT		АСТ		VPT
MTH 101-133	Current cumulative high school GPA of 3.0 or higher and a 2.0 (C) grade or higher in a high school math course.	or	ERW score of 480 or higher and Math score of 530 or higher.	or	ERW score of 390 or higher and math score of 500 or higher.	or	22 or higher on Math subject area test.	or	Placement in MTH 111 or higher (Satisfaction of MTE 1-3).
MTH 154, 155	Current cumulative high school GPA of 3.0 or higher and a 2.0 (C) grade or higher in a high school math course.	or	ERW score of 480 or higher and Math score of 530 or higher.	or	ERW score of 390 or higher and math score of 500 or higher.	or	22 or higher on Math subject area test.	or	Placement in MTH 154 or higher (Satisfaction of MTE 1-5).
MTH 161, 167	Current cumulative high school GPA of 3.0 or higher and a 2.0 (C) grade or higher in Algebra 2 or in a higher level math course.	or	ERW score of 480 or higher and Math score of 530 or higher.	or	NIA	or	22 or higher on Math subject area test.	or	Placement into MTH 161 or higher (Satisfaction of MTE 1-9).
MTH 261, 263	Successful completion of required prerequisite courses: MTH 161 for MTH 261; MTH 261; MTH 167 (or MTH 161/162) for MTH 263.	or	N/A	or	N/A	or	N/A	or	Placement into MTH 261 or 263 on VPT.
CHM 111	Current cumulative high school GPA of 3.0 or higher and a 2.0 (C) grade or higher in Algebra 2 or in a higher level math course.	or	ERW score of 480 or higher and Math score of 530 or higher.	or	N/A	or	22 or higher on Math subject area test.	or	Placement into MTH 161 or higher (Satisfaction of MTE 1-9).

9th and 10th Grade Student Enrollment

Dual enrollment is restricted to rising high school juniors and seniors. Admitting high school students below the junior or senior level is considered exceptional. The college-ready status of each prospective student below the junior or senior high school level shall be assessed on a case-by-case basis. Such students must meet the above eligibility criteria and any other criteria as may be established by the college for participation of students below the junior or senior level in dual enrollment. Colleges shall have criteria and procedures for the case-by-case assessment of such students. Formal approval by the college president, or designee, is required for applicants who are below the junior or senior high school level to participate in dual enrollment.

Current Dual Enrollment Course Offerings

While some of our Dual Enrollment (DE) courses may be accepted for transfer, no unified policy exists on the transfer of these courses. All transfer credits are at the discretion of the receiving college or university. Students are strongly urged to acquaint themselves with the requirements of the college or university to which transfer is being considered and to consult with an advisor at those transfer institutions in order to determine if their DE courses will be accepted for transfer prior to pursuing DE courses. Each college or university will make its own determination regarding the transfer status of DE courses.

"Transferable" courses are community college courses for which the credits may be accepted at a four-year college or university.

"Non-transferable" courses are community college courses for which credits most likely will not be accepted at a four-year college or university.

The "•" indicates the school at which a course is currently <u>located</u>. Many of these courses may be offered at other high schools based on sufficient student interest/demand and the availability of qualified staff. Students also may take courses at a school other than their home school by attend at least a part of their school day at that school (transportation provided).

Components of the **Transfer Virginia** initiative include course revisions, curriculum work, the Passport, and the <u>Uniform Certificate of General Studies</u> and impact course offerings and outcomes, as well as transfer opportunities for students. **The online Transfer Portal** is a critical component to the **Transfer Virginia** Initiative as it will help students navigate transfer by providing information about programs, course equivalencies, admissions, etc. across the state all in one place.

Approved Passport Course Roster and Transfer Virginia DE Student Guide

MCPS Course	MCPS Course Name	NRCC Course	AHS	BHS	CHS	EMHS
DE1600A	DE/AP ENGLISH 11 COLLEGE COMPOSITION	ENG 111 ENG 112	٠	٠	٠	•
DE1600B	DE ENGLISH 12 COLLEGE COMPOSITION	ENG 111 ENG 112		•	•	
DE1601A	DE/AP ENGLISH 12 LITERATURE & COMPOSITION	ENG 245 ENG 225	٠	•	٠	•

Transferrable Courses

DE2951A	DE/AP U.S. HISTORY	HIS 121 HIS 122	•	•	•	•
DE2950A	DE/AP U.S. GOVERNMENT	PLS 135 PLS 136			•	٠
DE4700A	DE/AP BIOLOGY	BIO 101 BIO 102			•	٠
DE4330	DE HUMAN ANATOMY / PHYSIOLOGY	BIO 141 BIO 142	٠	•	•	•
DE43201	DE BIOTECHNOLOGY	BIO 253			•	
DE4410A	DE/AP CHEMISTRY	CHM 111 CHM 112		•		
DE4510	DE/AP PHYSICS	PHY 201 PHY 202	•		•	
DE3162A	DE/AP PRECALCULUS w/TRIGONOMETRY	MTH 167	•	•	•	٠
DE31998	DE APPLIED CALCULUS I	MTH 261	•	•	•	٠
DE31999	DE APPLIED CALCULUS II	MTH 262	•	•	•	٠
DE31995	DE/AP CALCULUS I (AB)	MTH 263	•	•	•	•
DE31996	DE/AP CALCULUS II (BC)	MTH 264	•		•	٠
DE9197V	DE ART/MUSIC APPRECIATION VIRTUAL	ART 100 MUS 121	•	•	•	•
DE9062	DE VIRGINIA TEACHERS FOR TOMORROW / TEACHER CADET Note: This course can be applied toward the elective requirements in NRCC's AA&S General Studies program. However, it does not transfer to all four-year institutions.	EDU 198	•	•	•	
DE9072	DE VIRGINIA TEACHERS FOR TOMORROW II / TEACHER CADET II	EDU 200	•	•	•	
DE2999	DE CONTEMPORARY WORLD RELIGIONS	REL 230		•		
DE2996V	DE PSYCHOLOGY/SOCIOLOGY VIRTUAL	PSY 200 SOC 200	•	•	•	•
DE2900A	DE/AP PSYCHOLOGY	PSY 200		•		
DE2212A	DE/AP HUMAN GEOGRAPHY	GEO 210 GEO 220	•	•	•	•
DE6612	DE COMPUTER INFORMATION SYSTEMS	ITE 152	•	•	•	
DE6640V	DE COMPUTER SCIENCE PROGRAMMING 1 VIRTUAL	CSC 221	•	•	•	•
DE6641V	DE COMPUTER SCIENCE PROGRAMMING 2 VIRTUAL	CSC 222	•	•	•	٠
DE6642V	DE COMPUTER SCIENCE PROGRAMMING 3 VIRTUAL	CSC 223	•	•	•	•

Non-Transferrable Courses

MCPS Course	MCPS Course Name	NRCC Course	AHS	BHS	CHS	EMHS
DE8531	DE ENGINEERING DESIGN GRAPHICS (Drafting II)	CAD 151		•		
DE8532	DE CIVIL ENGINEERING & ARCHITECTURAL DESIGN GRAPHICS (Drafting III)	CAD 111		٠		
DE8436	DE ENGINEERING DRAWING & DESIGN	CAD 151			٠	
DE8437	DE ARCHITECTURAL DRAWING & DESIGN	CAD 151		•		
DE8437	DE ARCHITECTURAL DRAWING & DESIGN	ARC 121			•	
DE8438	DE ADVANCED DRAWING & DESIGN	CAD 152	•	•	•	
DE8286	DE EARLY CHILDHOOD EDUCATION II Note: This course is eligible for transfer but is primarily considered a non- transferable course.	CHD 118 CHD 120		•	•	
DE8383	DE MEDICAL TERMINOLOGY	HIM 101 HIM 103	٠	•	٠	•
DE6630	DE DESIGN, MULTIMEDIA & WEB TECHNOLOGIES	ITD 110	٠	•	٠	
DE6302	DE CYBERSECURITY I	ITN 106		•	•	
DE6304	DE CYBERSECURITY II	ITN 101		•	•	
DE6306	DE CYBERSECURITY III	ITN 261		•	•	
DE8540	DE PRECISION MACHINING TECHNOLOGY II	MAC 106			٠	
DE8331	DE NURSE AIDE	NUR 27		•	٠	
Included in DE English 11 & 12	COLLEGE SUCCESS SKILLS	SDV 100	•	•	•	•
DE9826	DE RESEARCH I Note: This course can be applied toward the elective requirements in NRCC's AA&S General Studies program. However, it does not transfer to all four-year institutions.	SCT 198		•		
DE9827	DE RESEARCH II Note: This course can be applied toward the elective requirements in NRCC's AA&S General Studies program. However, it does not transfer to all four-year institutions.	SCT 298		•		
DE8735	DE INTRODUCTION TO DRONES	UMS 107	•	٠	٠	٠
DE8736	DE DRONES II	UMS 177		•		
DE8019	DE WELDING I	WEL 100	•	•	٠	
DE8095	DE WELDING II	WEL 123	•	•	•	

Table of Contents

DE Special Circumstance Criteria & Forms for 9th or 10th Graders

There are two (2) different forms – **Transferable** Courses and **NON-Transferable** Courses – on the following pages. The criteria for each type of course is different. **Students should consult the School Counselor to determine which form they need to use (also see pages 196-199 for a complete listing of transferable and non-transferable courses offered by MCPS).** The criteria for a waiver is established by NRCC and is firm. If students do not meet the criteria, then NRCC will not grant the waiver. These students will not be allowed to dual enroll, and they will need to enroll in a different course.

- Students who meet the criteria for enrollment in transferrable courses are also eligible to enroll in bon-transferrable courses, as the criteria for transferrable courses is more stringent.
- Any student who satisfies the required prerequisites can apply for the waiver and enroll in any desired DE course. MCPS will not impose any limits. Just as with Advanced Placement (AP) courses, teachers can make recommendations, but no school will not deny students access to a course for which they meet the requirements.



5251 College Drive, Dublin, VA 540-674-3600

Request for Special Circumstance Dual Enrollment

Enrollment of high school freshmen and sophomores in dual enrollment courses is designated

exceptional. Each freshman or sophomore student will be considered on a case-by-case basis and will require formal approval by the college president or designee, as well as the appropriate academic division dean. Other conditions, as deemed by the college president, may also apply. All students who may be admitted under this consideration must meet the appropriate dual enrollment requirements as published at https://www.nr.edu/dualenrollment/getstarted.php

To be completed by student and high school counselor:

Student's Full Name	
Student's Date of Birth	
Student's High School	
Student's Cumulative GPA	

The student has met the following criteria to enroll as a ninth or tenth grade student:

For Transferable Courses		For Non-Transferable Courses	
GPA criterion is mandatory. Student must meet 3 of 4 additional criteria.	\checkmark	GPA criterion is mandatory. Student must meet 3 of 4 additional criteria.	~
3.5 GPA or higher (Required)		3.0 GPA or higher (Required)	
A in Algebra I or Geometry or Pass Advanced on Algebra I SOL Test		B or higher in Algebra I or Pass Advanced on Algebra I SOL Test	
A in most recent English course		B or higher in most recent English course	
A in most recent science course		B or higher in most recent science course	
A in most recent history course		B or higher in most recent history course	
A in Algebra II or Pass Advanced on Algebra II SOL test (Required for enrollment in MTH courses)			

This student has permission to enroll in the following dual enrollment course(s) through NRCC:

Semester and Year of Expected Dual Enrollment (for example: Fall 2023)		
Courses	High School Course	NRCC Course(s)

Signatures

Student Signature	Date	
Counselor Signature*	Date	
Parent/Guardian Signature**	Date	

* **Counselor Signature** indicates: (1) verification of grades and GPA; (2) verification that the student has met all pre/corequisites for the high school course(s) requested; and (3) recommendation/approval of high school administration for the identified ninth or tenth grader to enroll in the course(s) listed.

** **Parent/Guardian Signature** gives permission for the student to enroll in the NRCC courses listed above as a special circumstance and acknowledges course content will not be altered to be age appropriate for younger students. This course carries college rigor and expectations, and all appropriate college policies will apply. The student's final course grade(s) will become part of the student's permanent NRCC transcript.

Authorized by:

Administrative Assistant for Dual Enrollment	Date	
Dean (as Dual Enrollment Coordinator)	Date	
VP for Instruction and Student Services (as President's designee)	Date	

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Montgomery County Public Schools Application/Request to Enroll in an External Course

Please review carefully. Parents/Guardians	s and students are responsible f	or meeting all requirements.
Student's Name:	School:	Current Grade:
Parent/Guardian Name and Address:		
Phone Number: Emai	l Address:	
Official Title of Requested Course(s): Number of Credits from Institution Providi nstitution Providing Instruction:	ng Instruction for Requested Co	ourse(s):
Accredited by: Address and Phone # of Institution:		
Address and Phone # of Institution: School Year: Start Date for Cou	ırse(s): End Dat	e for Course(s):
Please state clearly the reason you want to are requesting high school credit on your N		
Official Course Description from the	institution providing instruc	tion <u>MUST</u> be attached.
We understand and agree to abide by the r by all stipulations and designated deadline	regulations outlined in MCPS P s will result in the negation of	olicy 7-2.4. Failure to abide
We understand and agree to abide by the r by all stipulations and designated deadline receive credit. Final decisions will be made	regulations outlined in MCPS P s will result in the negation of by MCPS administration.	olicy 7-2.4. Failure to abide this agreement and failure to
We understand and agree to abide by the r by all stipulations and designated deadline receive credit. Final decisions will be made Student Signature:	regulations outlined in MCPS P es will result in the negation of by MCPS administration.	olicy 7-2.4. Failure to abide this agreement and failure t
We understand and agree to abide by the r by all stipulations and designated deadline receive credit. Final decisions will be made Student Signature: Parent/Guardian Signature:	regulations outlined in MCPS P es will result in the negation of by MCPS administration. Da	olicy 7-2.4. Failure to abide this agreement and failure t
We understand and agree to abide by the r by all stipulations and designated deadline receive credit. Final decisions will be made Student Signature: Parent/Guardian Signature: School-Level Approvals (Please sign to indic	regulations outlined in MCPS P as will result in the negation of by MCPS administration. Da Da cate approval):	olicy 7-2.4. Failure to abide this agreement and failure t ate:ate:
We understand and agree to abide by the r by all stipulations and designated deadline receive credit. Final decisions will be made Student Signature: Parent/Guardian Signature: School-Level Approvals (Please sign to indic External Courses Previously Taken:	regulations outlined in MCPS P as will result in the negation of by MCPS administration. Da Da	olicy 7-2.4. Failure to abide this agreement and failure to ate:ate:
We understand and agree to abide by the r by all stipulations and designated deadline receive credit. Final decisions will be made Student Signature: Parent/Guardian Signature: School-Level Approvals (Please sign to indic External Courses Previously Taken: School Counselor:	regulations outlined in MCPS P as will result in the negation of by MCPS administration. Da Da cate approval):	olicy 7-2.4. Failure to abide this agreement and failure t ate: ate:
We understand and agree to abide by the receive credit. Final decisions will be made student Signature:	regulations outlined in MCPS P es will result in the negation of by MCPS administration. Da cate approval): ege credit(s) and high school school credit(s) only (as reque s not meet the criteria to be awa	olicy 7-2.4. Failure to abide this agreement and failure t ate: ate: Date: Date: pol credit(s) sted)
We understand and agree to abide by the receive credit. Final decisions will be made student Signature:	regulations outlined in MCPS P es will result in the negation of it by MCPS administration. Da cate approval): ege credit(s) and high school school credit(s) only (as reque s not meet the criteria to be awa	olicy 7-2.4. Failure to abide this agreement and failure t ate: ate: Date: Date: pol credit(s) sted) arded <u>high school</u> credit
We understand and agree to abide by the r by all stipulations and designated deadline receive credit. Final decisions will be made Student Signature: Parent/Guardian Signature: School-Level Approvals (Please sign to indic External Courses Previously Taken: School Counselor:	regulations outlined in MCPS P es will result in the negation of it by MCPS administration. Da backstrate approval): ege credit(s) and high school n school credit(s) only (as reque s <u>not</u> meet the criteria to be awa	olicy 7-2.4. Failure to abide this agreement and failure t ate: ate: Date: Date: col credit(s) sted) arded <u>high school</u> credit Date:

MCPS Policy 7-2.4

Virtual Virginia

Virtual Virginia is a program of the Virginia Department of Education serving students in Virginia public middle and high schools by providing flexible options for the diverse educational needs of students and their families. Virtual Virginia's supplemental program offers online courses for students who may not have access to Advanced Placement (AP®), standard core academic, world language, and elective courses within their schools because of a lack of highly qualified local instructors for those courses, because student enrollment would be too low to offer the courses locally, or due to scheduling conflicts within a school.

Students in high school (grades 9–12) who meet the course prerequisites and have approval from the principal may enroll in courses in Virtual Virginia's supplemental program through their school counselor. Course prerequisites are established by Virtual Virginia. All students must register for, and participate in, required assessments that correspond to their Virtual Virginia courses at their local school.

Only students enrolled in the <u>MCPS Virtual School Program</u> will be permitted to enroll in Virtual Virginia's full-time program.

Students enrolled in a middle or high school in MCPS will be approved to take Virtual Virginia courses as "internal" courses only if one or more of the following criteria are met:

- 1. The course(s) is/are not offered at the local school.
- 2. A scheduling conflict within the school prevents the student from accessing the desired class and cannot be resolved any other way.
- 3. The course(s) must be taken during a designated instructional period during the regular school day.

All other Virtual Virginia courses will be considered as "external" courses and will be subject to all related policies (below).

These definitions of "internal" and "external" courses do <u>not</u> apply to Virtual Virginia courses taken as part of a student's participation in the <u>MCPS Virtual School Program</u>. All courses approved to be taken as part of the MCPS Virtual School Program will be treated as "internal" courses and will not be subject to any limitations described below.

Course Credit for External Courses

Students in grades 7 through 12 may take external courses (online or face-to-face) that originate from educational organizations other than Montgomery County Public Schools ("external") as appropriate for the student's grade level and in accordance with School Board policy. Courses may originate from educational organizations within or outside of the Commonwealth of Virginia. Students in grades 9-12 may earn high school credit for the successful completion of high school courses, dual enrollment courses, and/or college/university courses if the following criteria are met:

- 1. The educational organization from which the external course originates must be accredited by the appropriate state, regional, or national educational accrediting agency;
- 2. The student is responsible for all costs associated with taking an external course.
- 3. If the external course is a college/university course, the student will earn one (1) high school credit for a minimum of six (6) college/university semester hours in a single subject. Exceptions to the minimum number of college/university semester hours required for external courses to be counted as one (1) high school credit may be made for students who are taking required courses to complete the MCPS/New River Community College Associate of Arts & Sciences Degree Pathway, Associate of Applied Science Degree Pathway Information Technology CyberSecurity Specialization, the MCPS to New River Community College Registered Nurse Program, or other division approved programs.

- Prior to enrolling in an external course, the student must complete the MCPS Application/Request to Enroll in an External Course form and submit it, along with an official course description from the originating school and the student's reason for taking the course, to the school counselor;
- 5. Final decisions will be made by the Director of Secondary Education in consideration of the recommendation of the principal and school counselor;
- 6. The student and his/her parent/guardian must agree to abide by the requirements outlined in this policy. Failure to abide by all requirements and designated deadlines will result in the negation of the agreement and failure to receive high school credit. External courses taken without prior approval will not be recognized by MCPS.

The impact of earning credit for an EOC-related core curriculum course from an external program on the student's diploma must be communicated in writing to the student and the student's parent(s) during the approval process.

Limitations on External Courses:

- 1. All students are limited to taking **no more than one (1) external course for high school credit** <u>during a one-year</u> <u>period</u>.
- 2. A maximum of four (4) high school credits may be earned toward a <u>standard</u> or <u>advanced studies</u> diploma by taking external courses.
- 3. A student seeking a <u>standard diploma</u> may take a maximum of two (2) external courses for high school credit in a core curriculum area.
- 4. A student seeking an <u>advanced studies diploma</u> may take no more than one (1) external course for high school credit in a core curriculum area.

Exceptions to the limitations on external courses may be made for students who are taking required courses to complete the MCPS/New River Community College Associate of Arts & Sciences Degree Pathway, Associate of Applied Science Degree Pathway Information Technology - CyberSecurity Specialization, the MCPS to New River Community College Registered Nurse Program, or other division approved programs.

Students are free to request permission to take additional external courses; however, no additional high school credit will be awarded beyond the limitations stated above.

If the external course is a core curriculum course from another school division **within the Commonwealth of Virginia**, and is a course for which there normally would be a related SOL End-of-Course Test (EOC), **the student will take the EOC** as administered by the originating school division. The grade earned by the student as well as the SOL score and resulting verified credit will be accepted as a transfer credit from the other school division. If the student does not pass the EOC as administered by the other school division, he/she may retake the test through MCPS if needed and if he/she meets remediation requirements.

If the external course is a core curriculum course from a source **outside the Commonwealth of Virginia**, and is a course for which there normally would be a related SOL End-of-Course Test, the student will be notified during the approval process that he/she will not be able to earn a verified credit for the course. The grade earned by the student will be accepted as a transfer credit from an accredited out-of-state educational organization, but **the student will not take an SOL End-of-Course Test**.

Following completion of the external course, **the student is responsible for submitting a transcript showing the grade and credit(s) earned** in the course to the school counseling department. If a letter grade is given, the grade will transfer to the high school transcript and will be included in grade point average calculations. If the course is an Advanced Placement, dual enrollment, or approved college/university course, the student will receive weighted credit. If the course is graded on a pass/fail basis, the student will receive credit for the course with no impact on the student's GPA. **MCPS** will determine the number of high school credits, if any, that will be awarded for an external course in accordance with this policy.

If the external course is a pre-requisite for another high school course that the student plans to take during the next school semester or summer term, the transcript must be received in the school counseling department prior to the first day of the next semester or summer term.

Transcripts for graduating seniors must be received in the school counseling department at least five (5) days prior to graduation. Failure to meet this requirement may result in the external course not being included on the high school transcript and a failure to graduate if the course is a graduation requirement.

Montgomery County Public Schools shall (i) implement an agreement for postsecondary degree attainment with a community college in the Commonwealth specifying the options for students to complete an associate's degree or a one-year Uniform Certificate of General Studies from a community college concurrent with a high school diploma and (ii) notify students and parents of the agreement. Such agreement shall specify the credit available for dual enrollment courses and Advanced Placement courses with qualifying exam scores of three or higher.

Course Credit for Internal On-line Courses

Students in grades 7 through 12 may take online courses that originate within Montgomery County Public Schools ("internal"). Students in grades 9-12 may earn course credit for the successful completion of internal online high school courses, including dual enrollment courses as appropriate for the student's grade level and in accordance with School Board policy.

Limitations on Total Number of Course Credits Earned Annually in High School

MCPS high school students shall be limited to a total of no more than nine (9) courses for high school credit – including internal and external courses – during a one-year period that includes the academic year and the summer immediately following that academic year. Credits earned for experiences outside of the school day, such as Student Research Project, Internship Workfocus, Service Learning, and other approved internships or clinical experiences, will not be considered as part of the nine (9) course limit per year.



Montgomery County Public Schools
Application for Early Graduation

Student's Name:	School:	Current Grade:
Parent/Guardian Name and Address:		
Phone Number:	Email Address:	
When do you plan to graduate?		
 At the completion of my junior year At the end of 1st Semester At the end of Summer School 	r*	
*Please note that students intending to gro SOL scores (including Writing) and/or CTE o		
Which diploma do you intend to earn?	? 🗖 Advanced 🗖 Standard	
Attach a letter out	lining why you would like to grad	duate early.
Be sure to include your post-graduate		-
REQUIREMENTS TO BE MET FOR GRAD	DUATION: (to be completed by scho	ol counselor)
 Total Course Credits Still to be Courses Still Needed (list): 	ed <mark>(attach credit check sheet)</mark> : e Earned:	
• SOL Tests Still Needed (list):		
-	irement been met? YES NO Requirements (attach additional pag	
I have read and understand the above	requirements for Early Graduation	 1.
Student Cignotures	D	ate: ate:
School-Level Approvals (Please sign to	indicate approval):	
School Counselor: School Administrator:		
 Approved Denied – Reason: 		
Director of Secondary Education:		Date:
 Letter sent to parent/guardian Copy of form & letter placed in stud 		

MCPS Governor's STEM Academy

The Governor's STEM Academy is designed to promote student achievement and interest in STEM fields that are related to Advanced Manufacturing. Skill sets required for high demand STEM fields include Machining, Welding, Engineering, Robotics, and Information Technology.

Criteria for Earning a STEM Academy Diploma Seal:

- Complete a sequence of designated CTE courses (minimum 2) and earn industry certification
- Complete a work-based internship (minimum 15 hours)
- Participate in a co-curricular project
- Earn college credits (minimum 9) through dual-enrolled or advanced placement courses
- Maintain a 3.0 GPA for STEM classes
- Graduate with Advanced Studies or Standard Diploma.

Pathways in the STEM Academy:

- Architecture and Construction
- Information Technology
 - Cybersecurity
 - Information Support and Services
 - Web and Digital Communications
- Advanced Manufacturing
 - Precision Machining
 - \circ Welding
 - o Robotic Systems
- STEM Science and Mathematics
- STEM Engineering
 - o Engineering Design
 - o Robotics

Benefits of Participation:

- Earn a diploma seal upon graduation.
- Become part of a school culture designed to develop workplace readiness skills
- Documented time in a STEM industry work environment
- Documented postsecondary credits and industry certification

First Steps:

• Registering for any of the MCPS courses listed below will make you eligible for the Academy

Next Step:

Instruction and support for completing your plan of study will be ongoing through your STEM Academy/ CTE courses



STEM Academy Pathways

Architecture and Construction: Construction

84310 Construction Technology 84330 Materials and Processes

Architecture and Construction: Construction (CHS & BHS)

86010 Carpentry I 86020 Carpentry II

Architecture and Construction: Construction (EMHS & BHS)

86040 Cabinetmaking I 86050 Cabinetmaking II

Information Technology: Cybersecurity

63020 Cybersecurity I, DE 6304 Cybersecurity II, DE 6306 Cybersecurity III, DE

Information Technology: Information Support and Services 66120 Computer Information Systems 66130 Advanced Computer Information Systems, DE

Information Technology: Web and Digital Communications 66300 Design, Multimedia, and Web Technologies

66300 Design, Multimedia, and Web Technologies 66310 Advanced Design, Multimedia, and Web Technologies, DE

> Manufacturing: Precision Machining 85390 Precision Machining, DE 85400 Precision Machining II, DE

> > <u>Manufacturing: Welding</u> 80190 Welding I, DE 80191 Welding II, DE

<u>Manufacturing: Robotic Systems</u> 84210 Technology of Robotics Design 84250 Manufacturing Systems

Architecture & Construction

Advanced Manufacturing and Math

STEM: Principles of Technology

98110 Principles of Technology /Applied Physics I 98120 Principles of Technology / Applied Physics II

STEM: Engineering Design

84390 Introduction to Engineering Design, DE
84410 Principles of Engineering, DE
84420 Computer Integrated Manufacturing, DE
84300 Architecture and Civil Engineering, DE

STEM Engineering: Robotics

84210 Technology of Robotic Design (Robotics I)84500 Engineering Explorations (Robotics II)84910 Engineering Studies (Robotics III)

STEM: Technology and Design (BHS)

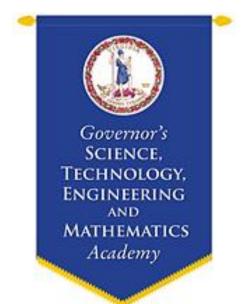
85300 Intro to Engineering Design (Drafting I), DE 85310 Engineering Design Graphics (Drafting II), DE 85320 Civil Engineering & Architectural Design Graphics (Drafting III), DE

STEM: Technology and Design (CHS)

84360 Engineering Drawing and Design, DE84370 Architectural Drawing and Design84380 Advanced Drawing and Design, DE

NOTE:

Any student may take these career and technical courses without participating in the Academy.



MCPS Work Ready Diploma Seal

The MCPS Work Ready Diploma Seal is designed to promote students gaining work-based learning experiences. The Work Ready Diploma Seal tells employers that a student has the necessary skills needed to be successful in a professional setting. A student who earns the Work Ready Diploma Seal has gained experience in a professional work environment.

Criteria for Earning a Work Ready Diploma Seal:

- Study the Workplace Readiness Competencies in a CTE class
- Pass the Workplace Readiness Skills Exam given by the Career and Technical Education Consortium of States (CTECS)
- Complete 90 hours of work-based learning experience
- Achieve a positive evaluation from workplace mentor



Montgomery County Public Schools Fine Arts Diploma Seal

Requirements:



- 1. All candidates for the seal must meet <u>BOTH</u> of the following requirements:
 - A. Successfully complete at least 1 fine arts course each of the 4 years of high school (Visual Arts, Music, and/or Theatre)
 - B. Have a 3.5 GPA or higher for all fine arts courses

<u>AND</u>

2. Students must select from <u>AT LEAST 3</u> of the following options:

- □ Audition for a District, State, Regional, or National music ensemble, or a VHSL theatre one-act competition at least 3 years
- □ **Participate in** at least 2 County, District, State, Regional, or National music ensembles, or theatre VHSL one-act competitions
- Participate in an approved non-school sponsored ensemble or production at least 2 years (i.e. Community Band, Roanoke Youth Orchestra, Blacksburg Children's Chorale, Summer Musical Enterprise, New River Stage, local community or college theatre production, etc.)
- Audition for a lead or supporting role, apply to direct, or apply for a major offstage position (ex. stage manager, lighting or sound director, or set designer) at least 3 years (not including theatre class performances)
- □ **Participate** at least 3 years and/or in 6 school sponsored musical or straight theatre productions either onstage or backstage (not including theatre class performances)
- Participate in at least 2 approved non-school sponsored straight or musical theatre performances
- Direct either a one-act or full-length play
- **Submit** a single work of art to the Regional Scholastic Art Competition at least 3 years
- **Receive** a Gold Key or a Silver Key from Regional Scholastic Art Competition for at least 1 year
- **Receive** an Honorable Mention from Regional Scholastic Art Competition for at least 2 years
- □ Submit a portfolio to Regional Scholastic Art Competition at least 1 year
- Selection from Regional Scholastic Art Competition for National Judication at least 1 year
- Participation in at least 6 school sponsored art shows
- Participation in at least 4 approved non-school sponsored art shows. (other than Scholastic Art Competition)
- **Submission to** the Virginia School Board Association Art Contest for at least 2 years
- **Submission to** the VA Congressional Art Competition for at least 2 years
- Placement in approved non-school sponsored art contests for at least 1 year (i.e. Doodle for Google)
- Acceptance and participation in the Summer Governor's School for the Arts for at least 1 year



MCPS COURSES by CAREER CLUSTER

The career cluster charts found on the following pages provide students with an idea of the different types of jobs and careers that are available to them. Montgomery County courses are listed in the column entitled high school courses to consider. If you are interested in a particular career cluster, please consider these recommendations when signing up for classes.

What are the 16 Career Clusters?

Career Clusters are groupings of occupations and industries that are used for organizing curriculum design and career counseling and guidance.

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



Agriculture, Food and Natural Resources		
Do you like working outside? Do you like to work on engines? Do you have a green thumb? Do you love working with animals? Is protecting the environment one of you	ur passions?	
High School Elective Courses to Consider Taking	 Agricultural Mechanics & Basic Animal Science Applied Physics/Principles of Technology I, II Bioethics Biology, AP, DE Biotechnology Botany/Zoology Chemistry I, II, AP Ecology Entrepreneurship Education Environmental Science, AP Equine Management & Production Fisheries & Wildlife Management Floral Design I Floriculture Foundations of Agriculture, Food, & Natural Resources Genetics 	 Greenhouse Plant Production & Management Horticulture Science & Practices Introduction to Natural Resources Introduction to Plant Systems Landscaping I Landscaping II Meteorology Oceanography Power & Transportation Small Animal Care Small Engine Repair I Small Engines Repair, Advanced Veterinary Science Virginia Teachers for Tomorrow Welding I, II
Related Career Clusters	 Government and Public Administration Law, Public Safety, Corrections and Security Science, Technology, Engineering and Mathematics 	
Diploma with Some Training	Certification or Associate Degree	College Degree
 Aquaculture workers Hazardous Materials Removal workers Refuse & Recycling collectors 	 Water Treatment Operator Wastewater Management System Operator Game Warden 	 Forester Biological Technician Park Ranger
Local Employment Projections	36 Annual job openings 11% Growth for New River Region through 2024	





Architecture and Construction				
Do you like reading blueprints and draw Do you appreciate the pride of building Do you like working on or operating cars Do you understand how things work? Do you like moving or handling material Do you like working with tools, machine Do you enjoy seeing the concrete result Do you enjoy designing and problem sol Do you like working with math and scier	something that will stay? s, trucks, or airplanes? , products, or people? ry, and computers? of your work? ving?			
High School Elective Courses to Consider Taking	 Advanced Drawing & Design Applied Physics/Principles of Technology I, II Architectural Drawing & Design Building Trades I, II Cabinetmaking I, II Carpentry I, II, III Civil Engineering & Architecture Construction Technology Drafting I, II, III Electricity I, II, III Engineering Design Graphics Engineering Drawing & Design 	 Entrepreneurship Education Environmental Science, AP HVACR I, II Introduction to Engineering Design Materials & Processes Technology Physics Physics, AP Principles of Engineering Robotics I, II, III Technical Drawing & Design Welding I, II 		
Related Career Clusters	Science, Technology, Engineering and MathematicsManufacturing			
Diploma with Some Training	Certification or Associate Degree	College Degree		
 Construction Trade Supervisor Carpenter Mason/Concrete Finisher Excavating and Loading Machine Operator Plumber/Pipefitter Metal Fabricator Landscaping/Groundskeeper Highway Maintenance 	ElectricianHVAC MechanicSurveyor	 Construction Manager Cost Estimator Civil Engineer Architect 		
Local Employment Projections	154 Annual job openings 7% Growth for New River Region through 2024			





Arts, Audio/Visual Technology & Communications Do you enjoy creative activities such as music, writing, entertainment and art? Do you like to communicate ideas? Are you a creative thinker? Do you like to be in the spotlight? Advanced Acting Interior Design I • Advertising Design I, II Introduction to Fashion Careers • Architectural Drawing & Design Introduction to Interactive • Art I, II, III, IV, AP Programming • Introduction to Interior Design • Art/Music Appreciation, DE • Journalism I, II, III Band Marketing Ceramics I, II Marketing Management Chorus/Vocal Ensembles • Cinema & Photographic Production I, Marketing, Advanced Media Arts I, II, III, IV н • Computer Information Systems • Music History/Literature • Computer Information Systems, • Music Theory Advanced Musical Theatre **High School Elective Courses to** Creative Writing I, II • Office Administration **Consider Taking** • Design, Multimedia, & Web • Percussion Techniques Technologies Piano Lab I, II • Design, Multimedia, & Web • Principles of Business & Marketing Technologies, Advanced • Programming, Advanced Digital Marketing Robotics I, II, III Electricity I, II, III Speech Fundamentals Entrepreneurship Education Sports & Entertainment Marketing • Fashion Marketing • Technical Theatre • Fashion Marketing, Advanced Theatre I, II Film Study Word Processing • Free Shakespeare • Graphics Imaging Technology I, II • Guitar Information Technology **Related Career Clusters** Diploma Certification **College Degree** with Some Training or Associate Degree Artist • Telecommunications Equipment • Editor Installer/Repairer • Musician Graphic Designer • Performer • Photographer/Videographer Newscaster TV/Broadcast Technician Desktop Publisher 11 Annual job openings **Local Employment Projections** 5% Growth for New River Region through 2024





Business Management and Administration				
Are you interested in organizational beha Are you interested in how businesses ope Have you ever thought of starting your ov Do you like working in an office and using Do you enjoy working with the public? Do you communicate effectively?	rate? vn business?			
High School Elective Courses to Consider Taking	 Accounting Accounting, Advanced Advertising Design I, II Business Law Business Management Computer Information Systems, Advanced Creative Writing I, II Design, Multimedia, & Web Technologies Design, Multimedia, & Web Technologies, Advanced Digital Marketing Entrepreneurship Education Graphics Imaging Technology I, II 	 Introduction to Interactive Programming Keyboarding Applications Marketing Marketing Management Marketing, Advanced Office Administration Opportunities in Global Trade Opportunities in Global Trade, Advanced Principles of Business & Marketing Programming, Advanced Speech Fundamentals Sports & Entertainment Marketing Virginia Teachers for Tomorrow Word Processing 		
Related Career Clusters	FinanceGovernment and Public Administration			
Diploma with Some Training	Certification or Associate Degree	College Degree		
Office ClerksStock ClerksShipping Clerk	 Office Supervisors Payroll Clerk Bookkeeper Postal Clerk Executive Secretary/Assistant Customer Service Rep 	 Operations Manager Management Analyst Human Resource Manager 		
Local Employment Projections	ections 519 Annual job openings 5% Growth for New River Region through 2024			





	Education and Training	5
Are you friendly, outgoing, understandin Are you good at explaining things? Do you enjoy helping others meet their p Do you like working with adults and/or o	goals?	
High School Elective Courses to Consider Taking	 Advertising Design I, II Business Law Business Management Computer Information Systems Computer Information Systems, Advanced Creative Writing I, II Design, Multimedia, & Web Technologies Design, Multimedia, & Web Technologies, Advanced Digital Marketing Early Childhood Education I, II Entrepreneurship Education Equine Management Graphics Imaging Technology I, II Introduction to Early Childhood Education 	 Introduction to Interactive Programming Keyboarding Applications Marketing Marketing Management Marketing, Advanced Office Administration Principles of Business & Marketing Programming, Advanced Small Engine Repair I Small Engines Repair, Advanced Speech Fundamentals Virginia Teachers for Tomorrow Word Processing
Related Career Clusters	Hospitality and TourismHuman Services	
Diploma with Some Training	Certification or Associate Degree	College Degree
 Childcare Worker Recreation Worker Fitness Trainer Aerobics Instructor 	 Teaching Assistants Library Assistant 	 Secondary School Teacher Elementary School Teacher Preschool Teacher Guidance Counselor Librarian Education Administrator Special Education Teacher
Local Employment Projections	271 Annual job openings 11% Growth for New River Region throug	gh 2024





	Finance	
Do you want to use your money wisely? Would you like to help others make betto Do you like working with money and nun Do you have excellent attention to detail Do enjoy tracking financial information?	nbers?	
High School Elective Courses to Consider Taking	 Accounting Accounting, Advanced Business Law Business Management Computer Information Systems Computer Information Systems, Advanced Entrepreneurship Education Introduction to Interactive Programming 	 Keyboarding Applications Office Administration Opportunities in Global Trade Opportunities in Global Trade, Advanced Principles of Business & Marketing Programming, Advanced
Related Career Clusters	 Business Management and Administra Government and Public Administration 	
Diploma with Some Training	Certification or Associate Degree	College Degree
Insurance AgentSecretary	 Bank Teller Loan Clerk Insurance Claims Associate 	 Loan Officer Accountant/Auditor Financial Manager Personal Financial Advisor
Local Employment Projections	98 Annual job openings 8% Growth for New River Region throug	h 2024





Government and Public Administration		
Are you interested in politics? Do you like to help the public? Do you want to get involved in local issu	ues?	
High School Elective Courses to Consider Taking	 Accounting Accounting, Advanced Bioethics Business Law Business Management Civil Engineering & Architecture Computer Information Systems Computer Information Systems, Advanced Cybersecurity Fundamentals Design, Multimedia, & Web Technologies 	 Design, Multimedia, & Web Technologies, Advanced Ecology Entrepreneurship Education Introduction to Interactive Programming Keyboarding Applications Office Administration Opportunities in Global Trade Opportunities in Global Trade, Advanced Principles of Business & Marketing Programming, Advanced
Related Career Clusters	 Business Management and Administrat Finance 	ion
Diploma with Some Training	Certification or Associate Degree	College Degree
Eligibility InterviewerOffice Clerk	Court ClerkMunicipal Clerk	LegislatorsCompliance Officers
Local Employment Projections	17 Annual job openings 12% Growth for New River Region throug	h 2024





	Health Science	
Do you like to care for sick people or help Are you interested in diseases and in how Do you like to provide a service to people Do you like science and lab experiments?	the body works?	
High School Elective Courses to Consider Taking	 Advanced PE Anatomy/Physiology Bioethics Biology, AP, DE Biotechnology Chemistry I, II, AP Emergency Medical Technician I Entrepreneurship Education Equine Management & Production Family Relations Fisheries & Wildlife Management Genetics Health Assisting Careers Human Anatomy/Physiology, DE 	 Introduction to Health & Medical Sciences Introduction to Natural Resources Medical Terminology Mental Health Assisting Careers Nutrition & Wellness Psychology Psychology, AP Psychology/Sociology Psychology/Sociology, DE Small Animal Care Veterinary Science Virginia Teachers for Tomorrow
Related Career Clusters	Human ServicesScience, Technology, Engineering and N	Nathematics
Diploma with Some Training	Certification or Associate Degree	College Degree
 Dental Assistant Home Health Aide Nurse Aide Medical Secretary 	 Licensed Practical Nursing (LPN) Dental Hygienist Certified Nursing Assistant (CNA) EMT Surgical Technician Biotechnology Technician Fitness Trainer Physical Therapy Assistant Psychiatric Technician Medical Assistant 	 Physical/Occupational Therapist Dentist Physician Nurse Practitioner Registered Nurse Radiation Therapist Athletic Trainer Veterinarian
Local Employment Projections	329 Annual job openings 15% Growth for New River Region throug	sh 2024





	Hospitality and Tourism	۱
Do you like to be with people? Do you enjoy playing or teaching sports? Do you like to travel or work at a resort? Do you like to prepare meals?		
High School Elective Courses to Consider Taking	 Accounting Accounting, Advanced Advertising Design I, II Business Law Business Management Computer Information Systems Computer Information Systems, Advanced Creative Writing I, II Culinary Arts I, II Culinary Arts Specialization Design, Multimedia, & Web Technologies Design, Multimedia, & Web Technologies, Advanced Digital Marketing Entrepreneurship Education Graphics Imaging Technology I, II Introduction to Hospitality, Tourism, & Recreation 	 Introduction to Interactive Programming Introduction to Marketing Keyboarding Applications Marketing Marketing Management Marketing, Advanced Office Administration Opportunities in Global Trade Opportunities in Global Trade, Advanced Principles of Business & Marketing Programming, Advanced Speech Fundamentals Sports & Entertainment Marketing Sports & Entertainment Management Virginia Teachers for Tomorrow Word Processing
Related Career Clusters	Human Services	
Diploma with Some Training	Certification or Associate Degree	College Degree
 Restaurant Cook Food Prep and Serving Wait Staff Housekeeping Supervisor Maid/Janitor 	BartenderHotel ClerkEvent Planner	 Facility Manager
Local Employment Projections	652 Annual job openings 6% Growth for New River Region through	2024





Human Services		
Do you like to help people solve problem. Do you enjoy providing a service to other Is it important to you to do something the Are you friendly, outgoing, a good listene	s? at helps others?	• Genetics
High School Elective Courses to Consider Taking	 Anatomy/Physiology Human Anatomy/Physiology, DE Barbering I, II, III Beauty Salon Assistant Bioethics Biology, AP, DE Biotechnology Cosmetology I, II, III Culinary Arts I, II Culinary Arts Specialization Early Childhood Education I, II Emergency Medical Technician I Entrepreneurship Education Family Relations 	 Health Assisting Careers Independent Living Introduction to Early Childhood Education Introduction to Health & Medical Sciences Medical Terminology Mental Health Assisting Careers Nutrition & Wellness Psychology Psychology, AP Psychology/Sociology Virginia Teachers for Tomorrow
Related Career Clusters	Education and Training	
Diploma with Some Training	Certification or Associate Degree	College Degree
Personal Care AideChildcare Worker	HairdresserFitness TrainerMassage Therapist	Social WorkerMental Health Counselor
Local Employment Projections	178 Annual job openings 16% Growth for New River Region throug	h 2024





	Information Technology		
Do you like a work environment that is Do you like to solve problems and think Are you patient, precise, and attend to Do you like working with people to solv Are you curious about how computer ga Are you a logical and analytical thinker?	on your feet? detail? e their computer problems? ames and programs work?		
High School Elective Courses to Consider Taking	 Business Law Business Management Cinema & Photographic Production I, II Computer Information Systems Computer Information Systems, Advanced Computer Network Software Operations Computer Network Software Operations, Advanced Computer Science Computer Science A, AP Computer Science Principles, AP Computer Systems Technology I, II Cybersecurity Systems Technology Design, Multimedia, & Web Technologies 	 Design, Multimedia, & Web Technologies, Advanced Digital Marketing Entrepreneurship Education Graphics Imaging Technology I, II Information Technology (IT) Fundamentals Introduction to Interactive Programming Keyboarding Applications Medical Terminology Office Administration Programming, Advanced Robotics I, II, III Virginia Teachers for Tomorrow Word Processing 	
Related Career Clusters	 Transportation, Distribution and Logistic Arts, Audio/Video Technology and Common 	 Science, Technology, Engineering and Mathematics Transportation, Distribution and Logistics Arts, Audio/Video Technology and Communications 	
Diploma with Some Training	Certification or Associate Degree	College Degree	
 IT Assistant Call Center Support Rep Telecommunications Technician Penetration Tester 	 Web Developer IT Support Specialist Field Service IT Technician Digital Marketer Forensic Computer Analyst 	 Software Developer Computer Support Specialist Computer System Analyst IT Security Analyst Security Systems Administrator 	
Local Employment Projections	43 Annual job openings 13% Growth for New River Region through 2024		





Law, Public Safety, Corrections and Security		
Are you good at working with people in Are you good at controlling your own en Are you a good role model?		
High School Elective Courses to Consider Taking	 Bioethics Biotechnology Business Law Business Management Computer Information Systems Computer Network Software Operations Computer Systems Technology I, II Cybersecurity Fundamentals Cybersecurity Systems Technology Entrepreneurship Education 	 Information Technology (IT) Fundamentals Keyboarding Applications Office Administration Psychology Psychology, AP Psychology/Sociology Psychology/Sociology, DE Word Processing
Related Career Clusters	Human ServicesGovernment and Public Administratio	n
Diploma with Some Training	Certification or Associate Degree	College Degree
• Lifeguard	 Correctional Officer/Jailer Police/Sheriff Officer Police Supervisor Security Guard Legal Assistant 	 Lawyer Probation Officer Detective/Criminal Investigator
Local Employment Projections	12% Growth for New River Region through 2024 136 Annual job openings	





Manufacturing Do you understand how things work? Do you like moving or handling material, products, or people? Do you like working with tools, machinery, and computers? Do you enjoy seeing the concrete result of your work? • Applied Physics/Principles of • Design, Multimedia, & Web Technology I, II Technologies, Advanced • Architectural Drawing & Design • Drafting I, II, III Drawing & Design, Advanced Bioethics Biotechnology • Electricity I, II, III • Building Trades I, II • Engineering Design Graphics • Engineering Drawing & Design Business Law Business Management • Entrepreneurship Education • Environmental Science, AP • Cabinetmaking I, II • Carpentry I, II, III • HVACR I. II Information Technology (IT) Chemistry **High School Elective Courses to** Fundamentals • Civil Engineering & Architecture **Consider Taking** • Introduction to Engineering Design Computer Information Systems Keyboarding Applications • Computer Information Systems, Manufacturing Systems I, II Advanced • Materials & Processes Technology Computer Integrated Manufacturing • Computer Network Software Office Administration Operations • Physics • Computer Systems Technology I, II • Precision Machining Technology I, II Construction Technology • Principles of Engineering Cybersecurity Fundamentals • Robotics I, II, III Cybersecurity Systems Technology • Technical Drawing & Design • Design, Multimedia, & Web • Welding I, II Technologies • Word Processing **Related Career Clusters** Science, Technology, Engineering and Mathematics Diploma Certification **College Degree** with Some Training or Associate Degree Industrial Machinery Mechanics Engineering Technician Purchasing Agent • Maintenance/Repair Workers Line Supervisor Industrial Engineer • Assemblers/Fabricators • Computer Repair Technician • Operations Manager Machinists Welders Inspectors/Testers/Weighers 490 Annual job openings **Local Employment Projections**



-1% Growth for New River Region through 2024



Marketing

	Warketing	
Do you enjoy providing a service to othe Can you write a good advertisement? Do you like helping people find solution Are you good at persuading people to n Are you a creative person?		 hings? Fashion Marketing, Advanced Graphics Imaging Technology I, II Introduction to Fashion Careers
High School Elective Courses to Consider Taking	 Business Law Business Management Cinema & Photographic Production I, II Computer Information Systems Computer Information Systems, Advanced Computer Network Software Operations Computer Network Software Operations, Advanced Creative Writing I, II Design, Multimedia, & Web Technologies Design, Multimedia, & Web Technologies, Advanced Digital Marketing Entrepreneurship Education Fashion Marketing 	 Introduction to Pashion Careers Introduction to Interactive Programming Journalism I, II, III Keyboarding Applications Marketing Marketing Management Marketing, Advanced Media Arts I, II, III, IV Office Administration Opportunities in Global Trade Opportunities in Global Trade, Advanced Principles of Business & Marketing Programming, Advanced Speech Fundamentals Sports & Entertainment Marketing Word Processing
Related Career Clusters		
Diploma with Some Training	Certification or Associate Degree	College Degree
CashiersCounter Clerks	 Retail Salesperson Retail Supervisors	 Sales Representatives, Wholesale/Manufacturing/Technical Market Research Analyst
Local Employment Projections	5% Growth for New River Region through 2024 571 Annual job openings	





Are you good at abstract thinking? Do you like to explore new ideas and te Do you understand how things work? Do you enjoy designing and problem so Do you like working with math and scie	olving?	
High School Elective Courses to Consider Taking	 Accounting Accounting, Advanced Anatomy & Physiology Architectural Drawing & Design Bioethics Biotechnology Cabinetmaking I, II Carpentry I, II, III Civil Engineering & Architectural Design Graphics Civil Engineering & Architecture Computer Information Systems Computer Information Systems, Advanced Computer Integrated Manufacturing Computer Network Software Operations Computer Network Software Operations, Advanced Computer Systems Technology I, II Construction Technology Cybersecurity Network Software Operations Cybersecurity Network Software Operations, Advanced Cybersecurity Systems Technology Design, Multimedia & Web Technologies Design, Multimedia & Web Technologies, Advanced Drafting I, II, III Drawing & Design, Advanced 	 Electricity I, II, III Engineering Design Graphics Engineering Drawing & Design Entrepreneurship Education Equine Management Floriculture Forestry & Wildlife Genetics Horticulture Sciences Horticulture Sciences Human Anatomy & Physiology, DE HVACR I, II Information Technology (IT) Fundamentals Introduction to Engineering Design Introduction to Interactive Programming Introduction to Natural Resources Manufacturing Systems I, II Materials & Processes Technology Medical Terminology Power & Transportation Precision Machining Technology I, II Principals of Technology I, II Principles of Engineering Programming, Advanced Robotics I, II, III Small Engine Repair Small Engines Repair, Advanced Technical Drawing & Design Veterinary Science Virginia Teachers for Tomorrow Welding I, II
Related Career Clusters	 Agriculture, Food and Natural Resource Architecture and Construction Manufacturing 	-
Diploma with Some Training	Certification or Associate Degree	College Degree
 Field Assistant 	Lab TechnicianEngineering Technician	 Industrial Engineers Mechanical Engineers Health/Environmental Scientist
Local Employment Projections	37 Annual job openings 4% Growth for New River Region through	1 2024





Transportation, Distribution and Logistics		
Do you like working on or operating cars, Do you understand how things work? Do you like moving or handling material, Do you like working with tools, machinery	products, or people?	
High School Elective Courses to Consider Taking	 Accounting Accounting, Advanced Auto Technology I, II, III Computer Information Systems Computer Information Systems, Advanced Entrepreneurship Education Marketing Marketing Management Marketing, Advanced 	 Office Administration Physics Power & Transportation Precision Machining Technology I, II Principles of Business & Marketing Applied Physics/Principles of Technology I, II Small Engine Repair Small Engines Repair, Advanced Welding I, II
Related Career Clusters	 Science, Technology, Engineering and Mathematics Information Technology 	
Diploma with Some Training	Certification or Associate Degree	College Degree
 Diesel Engine Specialists Vehicle Cleaners Industrial Truck Operators Delivery Service Drivers Packers 	 Automotive Service Technicians/Mechanics Tractor-Trailer Drivers Bus Drivers Billing Clerks Dispatchers GIS Specialist 	 Municipal Planner Transportation Engineer GIS Analyst Pilot
Local Employment Projections	294 Annual job openings 6% Growth for New River Region through	2024



ACADEMIC & CAREER PLAN (ACP)

Major⊒ Clarity	Academic and Career Plan	
Name	School	Student ID
Initiation date	Dates reviewed	
Career assessment / completed	Career goal I would like to pursue a career as a	
Personality traits	Learning styles	
Selected pathway	Selected career cluster	
Secondary Education Goal Diploma type Diploma recognition	Postsecondary Goal College or university	Military
ACT score PSAT score	Career / Workplace Readiness Certificate	Clubs and activities
SAT score ASVAB score	Career / Workplace Readiness Certificate Score	Industry Credentials
Student signature	Guardian signature	Counselor signature

Plan of Study Pathway		Cluster		School		
Year	7	8	9	10	11	12
Math	Recommended Courses					
Science	Recommended Courses					
Social Studies	Recommended Courses					
English	Recommended Courses					
Elective	Recommended Courses					
CTE Elective	Recommended Courses					

Careers your student is interested in Your student can identify careers they enjoy by favoriting them on MajorClarity.

Colleges your student is interested in Your student can identify postsecondary institutions they are interested in attending by expressing interest on MajorClarity.

Postsecondary Opportunities for High School Students

The 2022 General Assembly passed <u>House Bill 1299</u> and <u>Senate Bill 738</u>, which directed the Virginia Department of Education (VDOE) and the State Council of Higher Education for Virginia (SCHEV) to distribute to school divisions, and post on its website, information that assists high school students in making more informed decisions about their futures and ensures that such students are aware of the costs and benefits of different educational and certificate programs.

The <u>Postsecondary Opportunities for High School Students</u> webpage contains information for students on preparing, applying, and paying for college, as well as information on degrees and labor-market career projections. Please ensure this information is shared with students in each middle and high school in your division to assist them in best preparing for postsecondary education and training opportunities.

For additional information contact Brittany Everett, Postsecondary Access and Success Specialist, Office of Student Services, by email at <u>Brittany.Everett@doe.virginia.gov</u>, or by telephone at (804) 750-8120.