Montgomery County Public Schools High School Program of Studies









2023-2024







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

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

I. Instruction

Each student will have access to exemplary and meaningful learning opportunities that engage them in collaboration, communication, critical thinking, developing creativity, and building connections.

2. Learning Environments

Each student will have access to safe and vibrant learning environments that facilitate instruction, learning, and collaboration and promote physical, mental, emotional, and social well-being.

Poverty

Each student will be provided with resources to address their physiological, social, emotional, and cognitive needs.



Equity

Each student will have equitable access to resources, programs, opportunities, and learning experiences regardless of barriers.



Mental Health

Each student will learn resilience and life skills in a safe and supportive environment that promotes social, emotional, mental, and physical well-being.

Parameters

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

- 1. We will base all decisions on what is best for students.
- We are committed to equity as a priority in all decisions.
- 3. We will not tolerate discrimination based on race, culture, gender, age, gender identity and expression, sexual orientation, socioeconomic background, national origin, disability or religion.
- 4. We will model and foster a culture of integrity and respect.
- 5. We will ensure our allocations of money, time, and talents are aligned with our beliefs.
- 6. We will practice and promote open, honest, and transparent communication with all stakeholders.
- 7. We will practice a growth mindset in our continuous improvement efforts.
- 8. We will ensure that students and staff members are provided with a safe environment that promotes wellness.
- 9. We will be responsible stewards to sustain our physical and natural resources.
- 10. We are committed to excellence.



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.

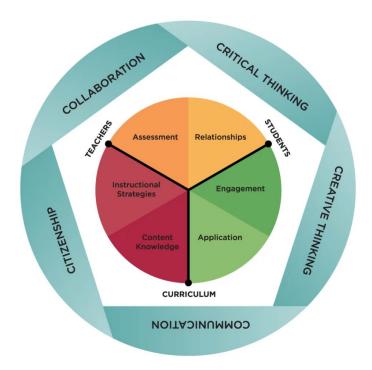
Access

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
Carl R. Pauli, Director of Secondary Education
Mark R. Husband, Director of Career & Technical Education and Business Partnerships
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. Chris Stewart

Christiansburg High School

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

Blacksburg High School

3401 Bruin Lane Blacksburg, VA 24060 (540) 951-5706

Guidance: (540) 951-5715 **Principal:** Mr. Adam Simpson

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	Michaelene Meyer, Ph.D., 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 Virtual School Program	Mark Husband, Director
Governor's STEM Academy	Veronica Spradlin, Lead Teacher
World Languages	Ashley Koontz, Lead Teacher
Gifted Programs	Diane Naff, Administrator
Health & Physical Education	Kelley Sutphin, Lead Teacher
Visual Arts	Carrie Lyons, Lead Teacher
Secondary Instrumental Music	Harry Farmer, Lead Teacher
Secondary Vocal Music	Mandi Steele, 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. With careful planning, MCPS students may complete an entire program of studies to earn an Associate of Arts & Sciences Degree while in high school. MCPS also offers prerequisite coursework for NRCC's Registered Nurse Program.

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 Academic & Career Plan (ACP). 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 213-229) 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:

- 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

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.

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 meet admission and course placement requirements established by NRCC. 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.

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.

Normally, academic courses intended for transfer with a grade of "C" or above will transfer to four-year institutions of higher education. However, NRCC does not guarantee to students that course credit for DE courses will transfer to any other college or university. NRCC CTE 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. 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.

MCPS and NRCC provide a pathway for students to graduate from high school having earned an Associate of Arts and Sciences (AAS) Degree in General Studies as well as an Advanced Studies or Standard High School Diploma concurrently through a combination of dual enrollment courses, Advanced Placement courses (with qualifying exam scores of three or higher), and college courses taken on NRCC's campus or mall site. All courses must be approved by MCPS and NRCC. School counselors are able to help students design a four-year program of studies that includes all necessary requirements to pursue this goal.

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 197-200</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

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 203-206.

MCPS VIRTUAL SCHOOL PROGRAM

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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.

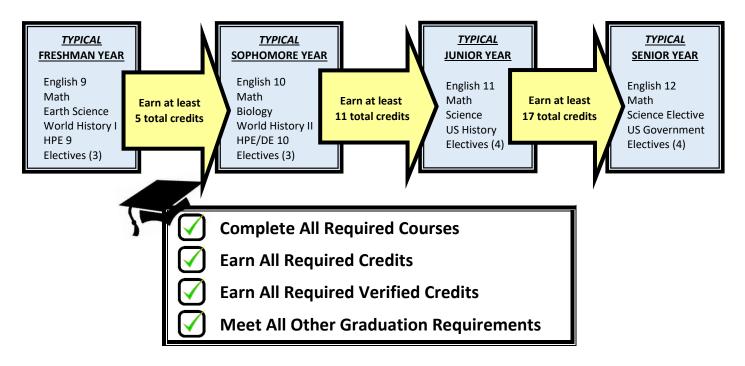


KEY TO ICONS

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

AP ¹	Advanced Placement Program®
■ NEW RIVER Community College	Dual Enrollment
PROJECT LEAD THE WAY	Project Lead The Way
NATEF	National Automotive Technicians Education Foundation
© R·I·T	Rochester Institute of Technology
VCOM	Virginia College of Osteopathic Medicine
E O STANCE	MCPS Governor's STEM Academy
Certified Work Product	Workplace Readiness
TRANSFER VIRGINIA	DE courses noted as a "Passport Transfer Course" <u>Click Here for More Information</u>

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:

- 1. 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 end-of-course SOL test. Such course and test combinations must be approved by the board. Upon waiver of the 140-clock-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 140-clock-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.

New Guidance Regarding the <u>Sequential Elective</u> Graduation Requirement from the VDOE (March 19, 2021) is highlighted in GREEN.

Standard Diploma Credit Requirements

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

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, 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 two 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>

- 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 **one (1) 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.

CTE Courses Added to Provision Regarding Partial Satisfaction: The updated SOA guidance document now states that either 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.

As used in this provision in the SOA guidance document, "partial satisfaction" refers to one course credit being 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**.

<u>Previously, the SOA guidance document specified that only a fine arts course could be used in this way. The provision was amended to include CTE courses, as well.</u>

Electives: Courses to satisfy this requirement shall include at least two (2) sequential electives.

Two-Credit Courses Permitted to Satisfy the Sequential Elective Requirement: A two-credit course may be used to fulfill the sequential elective requirement.

Specifically, the guidance states that a two-credit course, regardless of content and **as long as the courses are not specifically required for graduation**, can fulfill the sequential elective graduation requirement if course content builds on itself and creates a foundation for further education or training or preparation for employment.

TEMPORARY Flexibility for World Language as Partial Satisfaction: The Board has amended its sequential elective guidance to provide temporary flexibility for students graduating in the 2021-2022 or 2022-2023 school years. These students are now permitted to use a World Language course credit to partially satisfy the sequential elective requirement. Partial satisfaction is clarified in the SOA guidance document to mean that one course credit in World Language could be used to meet the discipline area requirement while also being used as one of the two required sequential electives. A student would still require an additional elective beyond the required discipline area courses to fully satisfy the sequential elective requirement.

Standard Diploma Example:

If using World Language courses to meet the sequential elective graduation requirement for the Standard Diploma, per the new temporary flexibility, students would need a total of two credits in World Language, as well as one credit in fine or performing arts or career and technical education, to meet both the sequential elective requirement and the World Language, Fine Arts, or Career and Technical Education requirement.

Note that World Language courses may <u>NOT</u> be used to partially satisfy the sequential elective requirement for those students graduating in the 2023-2024 school year and thereafter.

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 hands-on 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		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 three (3) 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 two (2) 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 or 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.

CTE Courses Added to Provision Regarding Partial Satisfaction:

The updated SOA guidance document now states that either a fine arts or CTE course used to satisfy the Fine Arts/CTE requirement for the **Advanced Studies Diploma** may be used to partially satisfy the sequential elective requirement.

As used in this provision in the SOA guidance document, "partial satisfaction" refers to one course credit being permitted to count as one of the two required sequential elective course credits while also being used as one of the required World Language/Fine Arts/CTE course credits for the **Advanced Studies Diploma**.

Previously, the SOA guidance document specified that only a fine arts course could be used in this way. The provision was amended to include CTE courses, as well.

• Electives: Courses to satisfy this requirement shall include at least two sequential electives.

Two-Credit Courses Permitted to Satisfy the Sequential Elective Requirement: A two-credit course may be used to fulfill the sequential elective requirement.

Specifically, the guidance states that a two-credit course, regardless of content and **as long as the courses are not specifically required for graduation**, can fulfill the sequential elective graduation requirement if course content builds on itself and creates a foundation for further education or training or preparation for employment.

<u>TEMPORARY</u> Flexibility for World Language as Partial Satisfaction: The Board has amended its sequential elective guidance to provide temporary flexibility for students graduating in the 2021-2022 or 2022-2023 school years. These students are now permitted to use a World Language course credit to partially satisfy the sequential elective requirement. Partial satisfaction means that one course credit in World Language could be used to meet the discipline area requirement while also being used as one of the two required sequential electives. A student would still require an additional elective beyond the required discipline area courses to fully satisfy the sequential elective requirement.

Advanced Studies Diploma Example:

If using World Language courses to meet the sequential elective graduation requirement for the **Advanced Studies diploma**, per the new temporary flexibility:

- Students **taking three credits of one language** would need a total of four credits in World Language to meet both the sequential elective requirement and the World Language graduation requirement;
- Students **taking two credits of two languages** would require a third year of one of the languages to fulfill both the sequential elective requirement and the World Language requirement.

Note that World Language courses may <u>NOT</u> be used to partially satisfy the sequential elective requirement for those students graduating in the 2023-2024 school year and thereafter.

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 CTE Program Area Guide); 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 Seal of Biliteracy webpage, including the Evidence of Proficiency document (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 pages 208-210 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 211 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 212 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 AboveScholar:GPA of 3.80 - 3.99Honor 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 MCPS Policy 6-6.3, 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 MCPS Policy 6-6.3 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/New River Community College General Studies Associate of Arts & Sciences Degree Pathway

The following chart articulates a pathway¹ for a qualifying student² within Montgomery County Public Schools to complete the New River Community College Associate of Arts and Sciences Degree³ in General Studies.

Specific courses required for the Associate of Arts and Sciences degree are intended to provide a balanced foundation in liberal education. The College and University Transfer program is designed for students who plan to complete a baccalaureate degree program at a four-year college or university, or who are not yet prepared to select a definite career objective. It is important that any student interested in transferring to a four-year college or university consult with his/her academic advisor.

Although a course fulfills a requirement for an NRCC program, it is possible the course will not fulfill a requirement at a four-year institution. Students who plan to transfer need to determine the four-year institution's requirements, and should contact the appropriate four-year institution to determine the transferability of courses **prior to course selection**. General transfer information is available at http://www2.nr.edu/transfer.

NRCC Required Course(s) Number in parentheses is number of NRCC Credits	College Credit(s) Required	Available MCPS Courses Number in parentheses is number of NRCC Credits		High School Credit(s) Awarded
		DE ENG 11 College Composition (= ENG 111 & 112) (6)	DE1600A	1
ENG 111 College Composition I (3)	6	AP English 11 Language & Composition* (= ENG 111 & 112) (6)	1196A	1
ENG 112 College Composition II (3)	O	DE ENG 12 College Composition (= ENG 111 & 112) (6)	DE1600B	1
		AP English 12 Literature & Composition* (= ENG 111 & 112) (6)	1195A	1
ENG 200-Level Literature Elective(s) (3)	3	DE ENG 12 British Literature & Literature of Other Cultures (= ENG 245 & 225) (6)	DE1601	1
SDV 100 College Success Skills (1)	1	Incorporated into DE English 11 College Composition and DE English 12 College Composition (1) If one of these courses is NOT taken, student must take SDV 100 through NRCC at their own cost.	DE1600A DE1600B	0
Complete one of the following Math Sequences (See Note Below): • MTH 167 & 263 (9) • MTH 261 & 262 (6) • MTH 263 & 264 (8)	6	-		
MTH 167 PreCalculus with Trigonometry (5)		DE PreCalculus with Trigonometry (= MTH 167) (5)	DE31621	1
MTH 261 Applied Calculus I (3)		DE Applied Calculus I (= MTH 261) (3)	DE31998	1
MTH 261 Applied Calculus I (3)		DE Applied Calculus II (= MTH 262) (3)	DE31999	1
The second of th		AP Calculus AB* (= MTH 261 & 262) (6)	3177A	1
MTH 263 Calculus	-	DE Calculus I (= MTH 263) (4)	DE31995	1
with Analytic Geometry I (4)		AP Calculus AB* (= MTH 263) (4) AP Calculus BC* (= MTH 263 & 264) (8)	3177A	1
MTH 264 Calculus		DE Calculus II (= MTH 263 & 264) (8) DE Calculus II (= MTH 264) (4)	3178A DE31996	1
with Analytic Geometry II (4)		AP Calculus BC* (=MTH 263 & 264) (8)	3178A	1
With Analytic desirietry if (4)			DE4700	2
		DE Biology (= BIO 101 & 102) (8)		2
		DE Human Anatomy & Physiology (= BIO 141 & 142) (8)	DE4330	
		DE Chemistry (= CHM 111 & 112) (8)	DE4410	2
		DE Physics (= PHY 201 & 202) (8)	DE45102	2
Natural Science with Lab 8	0	AP Biology* (= BIO 101 & 102) (8)	4370A	2
	δ	AP Chemistry* (= CHM 111 & 112) (8)	4470A	2
		AP Environmental Science* (4) (Can be used toward the 8 required credits of Natural Science with Lab or as Transfer Elective Credits)	4270A	2
		AP Physics C* (AP Physics C: Mechanical = PHY 201) (4) (AP Physics C: Electricity & Magnetism = PHY 202) (4)	4571A	2

		DE II C 115-t / 111C 424 () 422\ (c)	DE2054	
HIS 121 United States History I (3) HIS 122 United States History II (3)	6	DE U.S. History (= HIS 121 & 122) (6)	DE2951 2319A	1
1113 122 Officed States History II (3)		AP U.S. History* (= HIS 121 & 122) (6)		_
		AP World History* (= HIS 111 & 112) (6)	2380A	1
Social Science Electives		AP European History* (= HIS 101 & 102) (6)	2399A	1
(Must Select Combination of Courses to Earn		DE U.S. Government (= PLS 135 & 136) (6)	DE2950	1
Minimum of 6 College Credits)		AP Government & Politics: U.S.* (= PLS 135) (3)	2445A	1
No more than THREE (3) of these SIX (6)		AP Government & Politics: Comparative* (3)	2450A	1
CREDITS can be an HIS Course	6	(Social Science <u>Elective</u> Credit Only)	213071	
<u></u>		AP Economics, Macro V* (= ECO 201) (3)	2803V	0.5
Students cannot receive duplicate credit		AP Economics, Micro V* (= ECO 202) (3)	2802V	0.5
for PSY 200 if both DE2996V & DE2900		DE Psychology / Sociology (= PSY 200 & SOC 200) (6)	DE2996 (V)	1
are taken		DE Psychology (= PSY 200) (3)	DE2900	1
		AP Psychology* (= PSY 200) (3)	2902A	1
AA&S Humanities/Fine Arts Electives		DE Contemporary World Religions (REL 230) (3)	DE2999	1
(Must Earn <u>Minimum of 3</u> College Credits) ENG courses may <u>not</u> be used to fulfil this	3	DE Art/Music Appreciation (= ART 100 & MUS 121) (6)	DE9197V	1
requirement.		AP Art History V* (= ART 101 & 102) (6)	9151V	1
·		AP Spanish* (= SPA 101 & 102) (8)	5570A	1
		AP French* (= FRE 101 & 102) (8)	5170A	1
		AP Chinese V* (= CHI 101 & 102) (10)	5860V	1
		AP Latin V* (8 Foreign Lang Elective Credits)	5370V	1
General Studies AA&S Transfer Electives		DE Business Management (= BUS 100) (3)	DE6135	1
(Must Select Combination of Courses to Earn		DE Early Childhood Education I (= CHD 120) (3)	DE8285	1
Minimum of 15 College Credits)		DE Early Childhood Education II (= CHD 125) (3)	DE8286	1
Any credits earned from DE English 12,		DE Journalism I (= ENG 121 & 122) (6)	DE1211	1
and/or from a DE Math, Social Sciences,	15	DE Journalism II (= ENG 221 & 222) (6)	DE1212	1
Natural Sciences, or Humanities Elective		DE Virginia Teachers for Tomorrow (= EDU 200) (3)	DE9072	1
that were not used to satisfy that core		DE Research I (= SCT 198) (1)	DE9826	1
category requirement may be used as		DE Research II (= SCT 298) (1)	DE9827	1
Transfer Elective Credits.		DE Design, Multimedia & Web Tech (= ITD 110) (3)	DE6630	1
		AP Statistics* (= MTH 245 or BUS 216 or MTH 155) (3)	3192A	1
		DE Computer Science Programming I (= CSC 221) (3)	DE6640V	1
		DE Computer Science Programming II (= CSC 222) (4)	DE6641V	1
		DE Computer Science Programming III (= CSC 223) (4)	DE6642V	1
CSC 110 Introduction to Computing (3)	3	DE Computer Information Systems (= CSC 110) (3)	DE6612	1
		HLT 100 is incorporated into DE Introduction to Sports		
Health/PE Elective	1	Medicine/Athletic Training (1)	DE98261	1
		If course not taken or available, student must earn an approved		
		HLT or PED Credit through NRCC at their own cost.		
CST 100 Principles of Public Speaking (3)	3	Must be taken at New River Community College Tuition assistance may be available		1
TOTAL MINIMUM COLLEGE CREDITS REQUIRED	61			

Math Requirement: Students should confirm math requirement at 4-year transfer institution. Although a math sequence fulfills the requirements for an NRCC program, it may not fulfill the math requirement for the student's intended major at a four-year institution. Students who plan to transfer need to determine the four-year institution's math requirement prior to course selection.

Students may choose from college-approved courses in the NRCC Course Catalog other than those offered by MCPS to fulfill degree requirements. However, in order to receive high school credit, the student must receive an approved "MCPS External Course Request" prior to enrollment.

* NRCC will award college credit for AP Courses in which students earn a qualifying score. AP exam equivalencies are available at https://nr.edu/admissions/pdf/ap.pdf.

¹Any modification to the above pathway will be outlined in writing and agreed upon by the College and School Division. Any modifications allowed must not prevent students from obtaining the plan's intended credential.

²In order to participate in the above pathway, a student must meet all Dual Enrollment admission requirements and College program requirements, and complete VCCS placement tests. In order to enroll in any of the courses noted in the pathway, all course pre-requisites must be met.

³Program information including purpose, occupational objectives, admission requirements, notes, computer competency requirements, and course requirements may be found in the New River Community College catalog https://catalog.nr.edu/.

MONTGOMERY COUNTY PUBLIC SCHOOLS COMMON MATH PATHWAYS

Pathway 1		
Grade Level	Math Course	
7	Algebra I H	
8	Geometry H	
9	Algebra II H	
10	DE Precalculus	
11	Calculus *	
12	2 nd Year Calculus Course * OR Elective Math Course **	

The school determines all Math class placements through Algebra II

	Pathway 2		
Grade Level	Math Course		
8	Algebra I H		
9	Geometry or Geometry H		
10	Algebra II or Algebra II H		
11	Adv Algebra with Trig OR DE Precalculus		
12	Calculus *		

* Calculus Options Include: Calculus

(See <u>Course Descriptions</u> for DE Applied Calculus I & DE Applied Calculus II how these courses are offered)

DE/AP Calculus I (AB) & DE/AP Calculus II (BC)

** Elective Math Courses: AP Computer Science Principles

(See <u>Course Descriptions</u> AP Computer Science A for course prerequisites)

AP Computer Science A Probability & Statistics

AP Statistics

Pathway 3		
Grade Level	Math Course	
8	Math 8	
9	Algebra I	
10	Geometry	
11	Algebra II	
12	Adv Algebra with Trig OR DE Precalculus OR Elective Math Course **	

The school determines all Math class placements through Algebra II

	Pathway 4			
Grade Level	Math Course			
8	Math 8			
9	Algebra I			
10	Geometry			
11	AFDA *** / Algebra II			
12	Adv Algebra with Trig OR DE Precalculus OR Elective Math Course **			

Pathway 5			
Grade Level Math Course			
8	Math 8		
9	Algebra I		
10	Geometry		
11	AFDA ***		
12	Algebra II OR Elective Math Course **		

The school determines all Math class placements through Algebra II

	Pathway 6				
Grade Math Course					
8	Math 8				
9	Algebra Parts 1 & 2				
10	Geometry or Parts 1 & 2				
11	AFDA ***				
12	Capstone Math OR Elective Math Course **				

- Paired with Algebra I, Part 2 (after taking Algebra I, Part 1 with Supplemental Math)
- Taken immediately after Algebra I (if the Algebra I SOL test is failed)

^{***} AFDA also may be:

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: Language & Composition	1196A	 Covers all topics from the AP <u>Language</u> & 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 English 11: College Composition	DE1600A	 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 11 	ENG 111 & ENG 112 are
DE/AP English 11: <u>Language</u> & Composition	DE1196A	 Aligned with NRCC's ENG 111 & ENG 112 (and includes SDV 100) Covers all topics from the AP Language & Composition course Students will receive college credit from NRCC for ENG 111 & ENG 112 (and SDV 100) and will be prepared for the AP exam Addresses the Virginia Standards of Learning for English 11 	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: Literature & Composition	1195A	 Covers all topics from the AP <u>Literature</u> & 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 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.	
DE English 12: British Literature & Literature of Other Cultures • Students will receive college c NRCC for ENG 245 & ENG 225		Addresses the Virginia Standards of	ENG 112 is a prerequisite for all 200-level literature courses. ENG 112 may be earned by:	
DE/AP English 12: Literature & 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 	 Taking DE English 11 OR Taking AP English 11 and earning a score of 4 or higher on the AP Exam ENG 245 & ENG 225 are Passport Transfer courses. 	

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>.

Science Disciplines:

Earth Sciences

Biology

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 all 8 th grade students in MCPS	 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 9th grade or 10th 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 3rd Science in 11th Grade (Required for both diploma types)
- Students pursuing an Advanced Studies Diploma must choose a 4th Science in 12th Grade (Required for Advanced Studies Diploma Only)
- Students must meet course prerequisites for all courses listed below (See Course Descriptions)

* Environmental Science 427		This course may be taken in 9th grade prior to taking Biology or as an elective science in any grade. It may be used to satisfy the course selection requirement for an Earth Sciences or Biology discipline.
Astronomy	42600	
Meteorology	42200	These courses are "Earth Science II" courses
Oceanography	42500	
AP Environmental Science	4270A	 Covers all topics from the AP Environmental Science course Students will be prepared for the AP exam
Anatomy/Physiology	43300	
Bioethics	43202	Those courses are "Dielogy II" courses
Botany/Zoology	43200	These courses are "Biology II" courses
Ecology	43400	
AP Biology	4370A	 Covers all topics from the AP Biology course Students will be prepared for the AP exam
DE Biology	DE4700	 Aligned with NRCC's General Biology I & II Students will receive 8 college credits from NRCC for BIO 101 & 102
DE Biotechnology	DE43201	 Aligned with NRCC's Biotechnology Concepts Students will receive 3 college credits from NRCC for BIO 253

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	
AP Chemistry	4470A	 Covers all topics from the AP Chemistry course Students 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
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 (VESSS) VIRTUAL

A computer science course credit earned by students may be considered a science course credit.

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 History & Social Sciences</u> 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 History & Social Sciences</u> 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.

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

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	22160 2399A 23801A	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 SOL test for World History & Geography to 1500 AD will take the end-of-course SOL test 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 US History • DE/AP US History	23600 2319A DE2951 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 11th Grade also may elect to take AP	European H	listory or AP World	History: Modern if not previously taken
Students will select one of the following courses to meet diploma requirements: • Virginia & US Government • AP Government & Politics: US • DE US Government • DE/AP Government & Politics: US	24400 2445A DE2950 DE245A	These are the History & Social Sciences courses from which all MCPS students must select in 12 th grade	There is no end-of-course SOL test in Virginia & US Government

^{*} All students in World History I will complete a series of performance-based assessments throughout the course for inclusion in their course portfolio that will be evaluated, along with other assignments, to award a Verified Credit in history & social sciences. Determination of a verified credit will be made by averaging the (3) scored performance assessments, with equal consideration of the students' performance on the standards NOT targeted in the performance assessments. Students who did not earn a verified credit in World History I will be given the opportunity to complete performance-based assessments in World History II or VA/US History to earn a Verified Credit in history & social sciences.

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 US History	DE2951	 Aligned with NRCC's US History to 1877 and US History Since 1865 Students will receive college credit from NRCC for HIS 121 & HIS 122 Addresses the Virginia Standards of Learning for Virginia & US History 		
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 Government	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	African-American History	29990
AP Psychology	2902A	DE Contemporary World Religions	DE2999
DE/AP Psychology	DE2900A	Women's Studies	29980
Psychology /Sociology	29960		
DE Psychology /Sociology VIRTUAL	DE2996V		

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
 <u>Earth Science in 8th Grade</u> 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 elective Mathematics courses.

HEALTH & PHYSICAL EDUCATION:

Students will select HPE 9 or HPE 9/Strength & Conditioning

ELECTIVE COURSES (See <u>Graduation Requirements</u>)

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

			MCPS		High School Credits		1	Graduation	./
ENGLISH 9				V	Weighted			Requirement	ľ
			Course Code	11300	Credit Type	English		SOL Test(s)	
								Required	
Grade Level	9	Prerequisite(s)	None						

Course Description: In this course, students will apply knowledge of literary terms and forms to their reading and writing and to analyses of literature and other printed materials. They will be introduced to literary works from a variety of cultures and eras. Students will continue to develop their reading comprehension skills through utilizing strategies to identify formats, text structures, and main ideas. Students will write narrative, literary, expository, and informational forms. They will develop as writers by participating in a process for writing, including prewriting, organizing, composing, revising, editing, and publishing.

NOTE: Beginning in the 2021-22 school year, all students in English 9/9H will submit a persuasive paper for inclusion in their High School Writing Portfolio which will be evaluated along with assigned papers in English 10 and English 11 to award a Verified Credit in Writing.

ENGLISH 9 HONORS		1130H	This course incorporates the English 9 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	•		
BHS	•		
CHS	•		
EMHS	•		

WORLD HISTORY & GEOGRAPHY			MCPS	High School C	High School Credits		Graduation	./	
				22150	Weighted			Requirement	•
TO 1500 AD			Cuadit Tuna	History /	SOL Test(s)		./		
		Code		Credit Type	Social Science	es Required		*	
Grade Level	9	Prerequisite(s)	None						

Course Description: This course provides students with a study of world geography and world history from the earliest civilization to the end of the 15th Century. Emphasis will be placed on physical geography, geography skills, and the influences of geography on the development, continuity, and change of civilizations and cultures. Physical geography will include the study of the five themes of geography as well as developing analytical skills in interpreting maps, photographs, graphs, charts. The origin of Western Civilization and the impact of early non-western civilizations from ancient times through the Renaissance are central themes of the course.

NOTE: Beginning in the 2022-23 school year, all students in World History I/World History I(H) will complete two performance-based assessments for inclusion in their course portfolio that will be evaluated, along with other assignments, to award a Verified Credit in social studies. (*VDOE contingencies may necessitate the continued use of the traditional Standards of Learning end-of-course examination.*)

WORLD HIS & GEOGRA TO 1500 AI HONORS	PHY	2215H	This course incorporates the World History & Geography to 1500 AD curriculum and is designed for students who have displayed excellence in previous history/social sciences 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 I			MCPS	31300	High School C Weighted	redits	1	Graduation Requirement	✓
ALGEBRAT			Course Code	31300	Credit Type	Math		SOL Test(s) Required	~
Grade Level	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	•	

GEOMETRY			MCPS Course 31430 Code	21/20	High School Credits Weighted		1	Graduation Requirement	✓
GEOWETRY				Credit Type	Math		SOL Test(s) Required	✓	
Grade Level	9-11	Prerequisite(s)	Algebra I						

Course Description: This course emphasizes two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. Course content includes properties of geometric figures, trigonometric relationships, and reasoning to justify conclusions. Methods of justification include paragraph proofs, two-column proofs, indirect proofs, coordinate proofs, algebraic methods, and verbal arguments. A variety of applications and general problem-solving techniques, including algebraic skills, will be used. Graphing calculators will be used to assist in teaching and learning.

GEOMETRY HONORS	(3143H	This course extends the Geometry curriculum and includes additional opportunities for application and problem solving. It is designed for students who have demonstrated success in previous mathematics courses and are eager to meet the demands of a more rigorous and accelerated course.
AHS	•		
BHS	•		
CHS	•		
EMHS	•		

ALGEBRA, FUNCTIONS, & DATA ANALYSIS (AFDA)		MCPS Course Code	31340	High School Credits Weighted			Graduation Requirement		
				Credit Type	Math		SOL Test(s) Required		
Grade Level	9-12	Prerequisite(s)	Algebra I						

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	•	

									Table of Conte	ents
				B.4.CDC		High School C	redits	1	Graduation	✓
ALCEDD/				MCPS Course	31350	Weighted			Requirement	•
ALGEBRA	A II			Code	31350	Credit Type	Math		SOL Test(s) Required	✓
Grade Leve	el	9-12	Prerequisite(s)	Algebra I	& Geometry	•			· ·	
Course De	scriptio	n: This cou	rse provides a tho	rough treat	tment of algebrai	c concepts throu	igh the study of	fund	ctions, polynomia	als,
			numbers, expone							
and data a	nalysis.	Emphasis is	placed on the me	echanics of	algebra with real	world application	ns and modelin	ng. A	transformationa	I
		_	with families of fu			_	representation	s and	solutions will be	е
emphasize	d. Grapl	hing utilitie:	s, especially graph	ing calcula	tors, are integral	to the course.				
			This course exte	nds the Alg	ebra II curriculum	and includes ac	dditional opport	tunit	ies for applicatio	n
ALGEBRA I	I	3135H	and problem sol	ving. It is d	esigned for stude	nts who have de	monstrated suc	ccess	in previous	
HONORS		313311	mathematics co	urses and a	re eager to meet	the demands of	a more rigorou	s and	d accelerated	
			course.							
AHS	•									
BHS	•									
CHS	•									
EMHS	•									
				MCPS		High School C	redits	1	Graduation	✓
FARTUC	CIENICE	_		Course	42100	Weighted			Requirement	•
EAKIHS	EARTH SCIENCE			Code	42100	Credit Type	Earth Science		SOL Test(s) Required	✓
Grade Leve	el	8-9	Prerequisite(s)							
Course De	scriptio	n: This cou	rse is designed to	give the stu	udent an understa	anding of the ear	rth, its processe	s, hi	story and place i	n
			s is on geology, m							
locally and	worldw	vide, is stres	sed.							
AHS	•									
BHS	•									
CHS	•									
EMHS	•									
						High School C	redits	1	Graduation	
				MCPS		Weighted			Requirement	
ENVIRON	MENT	TAL SCIEN	CE	Course	42700	_	Science		SOL Toot/s)	
				Code		Credit Type	(Earth Sciend	ce	SOL Test(s)	
							or Biology)		Required	
Grade Leve	el	9-12	Prerequisite(s)							
Course De	scriptio	n: This cou	rse integrates the	study of m	any components	of our environm	ent, including t	he h	uman impact on	our
planet. Th	ese outo	comes focu	s on scientific inqu	uiry, the ph	ysical world, the I	iving environme	nt, resource co	nser	vation, humans'	
-			nd legal and civic	-	•				-	
-	-		eld work that inclu	-	-		_			
		•	ences). Students	-					•	
		f view abou	it the managemer	nt of natura	al resources, and a	a variety of learn	ing experiences	s and	l career educatio	n
opportunit	ies.									

AHS

BHS

CHS

EMHS

•

•

•

				MCPS		High School C Weighted	credits	1	Graduation Requirement	✓
BIOLOGY	I			Course 43100	Credit Type	Science (Biology)		SOL Test(s) Required	✓	
Grade Leve	l		Prerequisite(s)							
•	•		tics, microbiology g of biological base	• •	•	• •	•		• •	he
BIOLOGY HONORS		4310H	excellence in pre	vious scien	e Biology I curricu ce courses and ar s and accelerated	e eager to put f			• •	
AHS	•									
BHS	•									
CHS	•							•		
EMHS	•				·	·			·	

HEALTH & PHYSICAL EDUCATION 9			MCPS Course Code	73000	High School Credits Weighted		1	Graduation Requirement	✓	
				73000	Credit Type	НРЕ		SOL Test(s) Required		
Grade Leve	el	9	Prerequisite(s)	None						
classroom bleeding, c external de HEALTH & PHYSICAL EDUCATIO STRENGTH CONDITIO	compor ontusio efibrillat N 9 / &	nent of HPE ns, fracture	contributes to the of t	th units tha ic shock, ac ion, family	at include stress dult and child ca life, and disease	management, pe rdiopulmonary re	rsonal health, fi suscitation (CPF	rst a	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 <u>English 10 or English 10 Honors</u> (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> course

HISTORY / SOCIAL SCIENCE:

World History II is the recommended 10th grade History Couse for students pursuing the Advanced
 Studies Diploma. Students will select World History II, AP European History, or AP World History: Modern
 (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 <u>HPE 10 or HPE 10/Strength & Conditioning</u> (Driver's Education is part of HPE 10)

ELECTIVE COURSES (See <u>Graduation Requirements</u>)

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

			MCPS		High School C	Credits	1	Graduation	./
ENCLICH 10	CUSH 10		_	11400 Wei	Weighted			Requirement	•
ENGLISH 10			Course Code	11400	Cradit Type	English		SOL Test(s)	
			Code		Credit Type	English		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	0	1140H	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	English 10H at AHS may be paired with AP Euro in a "shared block" that meets daily for the full school year. In this scheduling format, students who take English 10H must also take AP Euro.				
BHS	•				
CHS	•		H at CHS may be paired with AP Euro in a "shared block" that meets daily for the full school year. In uling format, students who take English 10H must also take AP Euro.		
EMHS	•				

		MCPS		High School C	redits	1	Graduation		
WORLD HISTORY & GEOGRAPHY			_	22160	Weighted			Requirement	
1500 TO PRESEI	1500 TO PRESENT		Course 22160 Code	Cuadit Toma	History /		SOL Test(s)	./	
					Credit Type	Social Science	es	Required	•
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: Beginning in the 2022-23 school year, all World History II / AP European History / AP World History, students who must earn a verified credit for social studies will complete two 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 Standards of Learning end-of-course examination.*)

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

			MCPS		High School Credits		1	Graduation		
AD FURODEAN	LUCTORY		Course	2399A	Weighted		✓	Requirement		
AP EUROPEAN HISTORY				Credit Type	History /		SOL Test(s)	✓		
			3333		Cicuit 17pc	Social Science	es	Required		
Grade Level	Grade Level 10 Prerequisite(s)			World History & Geography to 1500 AD. Students should be able to read a						
Graue Level	10	Prerequisite(s)	college-le	vel textbook and v	write grammation	cally correct, co	mple	ete sentences.		

Course Description: The content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program for the AP European History course. The course is designed to be the equivalent of a two-semester introductory college or university European history course. In AP European History students investigate significant events, individuals, developments, and processes in four historical periods from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course also provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; individual and society; and national and European identity. This course covers the history of Europe from 1450 to the present. The political, military, economic, geographic, cultural, and social factors that underpin the modern political order are examined in depth. Students will develop critical thinking skills through analysis and interpretation of primary and secondary sources. Research and writing skills will be emphasized, as will technique for mastery of document-based questions.

NOTE: Beginning in the 2022-23 school year, all World History II / AP European History / AP World History, students who must earn a verified credit for social studies will complete two 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 Standards of Learning end-of-course examination.*)

AHS	•	This course may be paired with English 10 Honors in a "shared block" that meets for the full school year at AHS. In this scheduling format, students who take AP Euro must also take English 10H.
BHS	•	
CHS	•	This course may be paired with English 10 Honors in a "shared block" that meets for the full school year at CHS. In this scheduling format, students who take AP Euro must also take English 10H.
EMHS	•	

Note: AP World History: Modern and AP World History: Ancient are two separate courses with separate AP Exams. Students are **NOT** required to take both AP World History: Modern and AP World History: Ancient.

	^	MCPS		High School Credits	1	Graduation	
AP WORLD HIST	TORY:	111313	23801A	Weighted		Requirement	
MODERN		Course		Cradit Type		SOL Test(s)	
		Code		Credit Type		Required	
Grade Level	Prerequisi	te(s)					

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: Beginning in the 2022-23 school year, all World History II / AP European History / AP World History, students who must earn a verified credit for social studies will complete two 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 Standards of Learning end-of-course examination.*)

AHS		
BHS	•	
CHS		
EMHS		

AP WORL	WORLD HISTORY:		STORY:		23802A	High School C Weighted	redits	1	Graduation Requirement	
ANCIENT				Code	2500ZA	Credit Type			SOL Test(s) Required	
Grade Level			Prerequisite(s)							
	Course Description: See Above – This course is still under development and is NOT yet available. This is also a working course						e			
title; the offi	icial na	me will be	decided by the Co	llege Board	l in consultation	with colleges and	l universities.			
AHS										
BHS										
CHS										
EMHS										

ALCEDDA				MCPS Course 31300 High School Credits Weighted		dits	1	Graduation Requirement	√	
ALGEBRA	\			Code Credit Type Math			SOL Test(s) Required	✓		
Grade Leve	el	9-10	Prerequisite(s)							
through th	-					nalysis of data deriv			dinhenomena U	
approach.	_			•	• .	numerical approach ar equations, relatio	•		ion to a symbolic	
approach.	_			•	• .	• •	•		ion to a symbolic	
approach. statistics.	_			•	• .	• •	•		ion to a symbolic	
approach. statistics.	Topics i			•	• .	• •	•		ion to a symbolic	

CEOMETRY			MCPS	31430	High School Credits Weighted		1	Graduation Requirement	✓
GEOMETRY			Course Code	31430	Credit Type	Math		SOL Test(s) Required	✓
Grade Level	9-11	Prerequisite(s)	Algebra I						

Course Description: This course emphasizes two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. Course content includes properties of geometric figures, trigonometric relationships, and reasoning to justify conclusions. Methods of justification include paragraph proofs, two-column proofs, indirect proofs, coordinate proofs, algebraic methods, and verbal arguments. A variety of applications and general problem-solving techniques, including algebraic skills, will be used. Graphing calculators will be used to assist in teaching and learning.

GEOMETRY HONORS 3143H		3143H	This course extends the Geometry curriculum and includes additional opportunities for application and problem solving. It is designed for students who have demonstrated success in previous mathematics courses and are eager to meet the demands of a more rigorous and accelerated course.
AHS	•		
BHS	•		
CHS	•		
EMHS	•		

		MCPS		High School Credits			Graduation		
ALGEBRA, FUNCTIONS, & DATA ANALYSIS (AFDA)		Course Code	31340 -	Weighted			Requirement		
				Credit Type	Math		SOL Test(s) Required		
Grade Level	9-12	Prerequisite(s)	Algebra I						

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	•	

ALGEBRA II			MCPS Course Code	31350	High School Credits Weighted		1	Graduation Requirement	✓
ALGEBRA II					Credit Type	Math		SOL Test(s) Required	✓
Grade Level	9-12	Prerequisite(s)	Algebra I	& Geometry					

Course Description: This course provides a thorough treatment of algebraic concepts through the study of functions, polynomials, rational expressions, complex numbers, exponential and logarithmic equations, arithmetic and geometric sequences and series, and data analysis. Emphasis is placed on the mechanics of algebra with real world applications and modeling. A transformational approach to graphing is used with families of functions. Numerical, graphical, and algebraic representations and solutions will be emphasized. Graphing utilities, especially graphing calculators, are integral to the course.

ALGEBRA II HONORS		3135H	This course extends the Algebra II curriculum and includes additional opportunities for application and problem solving. It is designed for students who have demonstrated success in previous mathematics courses and are eager to meet the demands of a more rigorous and accelerated course.
AHS	•		
BHS	•		
CHS	•		
EMHS	•		

			MCPS	43100	High School Credits			Graduation	./
BIOLOGY I					Weighted			Requirement	*
BIOLOGY I		Course 431	45100	Cuadit Tuna	Science		SOL Test(s)	./	
			Code		Credit Type	(Biology)		Required	•
Grade Level	9-10	Prerequisite(s)		•					

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 living 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	•		

HEALTH &	HEALTH & PHYSICAL EDUCATION 10		MCPS	74050	High School C Weighted	redits	1	Graduation Requirement	✓	
WITH DR	IVER'S	EDUCAT	ION	Course Code	74030	Credit Type	НРЕ		SOL Test(s) Required	
DRIVER'S	ED CL	.ASSROO	М		70150	High School C	redits	0		
Grade Level 10 Prerequisite(s)			HPE 9							
Course Description: Physical education emphasizes personal fitness, individual and team games/sports, and lifetime activity. physical education program contributes to the overall mental, emotional, social, and physical growth of each student. The classroom component of HPE 10 consists of driver education and Health units that include family life education, mental healt consumer health, and personal injury prevention. Driver's Education meets the required hours of instruction established by t state of Virginia. HEALTH & PHYSICAL EDUCATION 10 WITH DRIVER'S 74051 Same as 74050 except with emphasis on Strength and Conditioning. EDUCATION / STRENGTH & CONDITIONING							udent. The , , 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 <u>English 11, AP English 11 or DE English 11</u> (AP English 11 requires English 10 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 should select a third or fourth science course, as required by the diploma type they are seeking

HISTORY / SOCIAL SCIENCE

- Students will select <u>US History</u>, <u>AP US History or DE US History</u> (AP US History requires previous history teacher recommendation)
- Students may also elect to take <u>AP European History</u> or <u>AP World History: Modern</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 <u>Graduation Requirements</u>)

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

		MCPS	11500	High School C	Credits	1	Graduation	./	
ENGLISH 11					Weighted			Requirement	*
		Course Code	11500	Cuadit Tuna	English		SOL Test(s)	./	
			Code		Credit Type	English		Required	•
Grade Level	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.

NOTE: Beginning in the 2023-24 school year, all students in **English 11, 11AP, 11DE** will submit an argumentative paper for inclusion in their High School Writing Portfolio which will be evaluated along with assigned papers in English 9 and English 10 to award a Verified Credit in Writing.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

AP ENGLISH 11 LANGUAGE & COMPOSITION		MCPS	11064	High School Credits Weighted			Graduation Requirement	✓	
		TION	Course Code	1196A	Credit Type	English		SOL Test(s) Required	✓
Grade Level	11	Prerequisite(s)	isite(s) English 10 and the ability to read and comprehend college-lev 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 for the AP English Language and Composition course. The course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. This intensive writing course explores the themes of American literature and literary techniques of persuasive speeches and essays. One of the benchmarks of the course is the researched argumentative paper. This course prepares students for the Advanced Placement English Language and Composition exam which focuses on rhetorical analysis and argumentative writing.

NOTE: Beginning in the 2023-24 school year, all students in **English 11, 11AP, 11DE** will submit an argumentative paper for inclusion in their High School Writing Portfolio which will be evaluated along with assigned papers in English 9 and English 10 to award a Verified Credit in Writing.

AHS	•	This course may be paired with AP US History in a "shared block" that meets daily for the full school year at AHS. In this scheduling format, students who take AP English 11 must also take AP US History.						
BHS	•	offered at BHS as DE/AP English 11 (based on student interest and the availability of qualified staff)						
CHS		Offered at CHS as DE/AP English 11 Only						
EMHS		Offered at EMHS as DE/AP English 11 Only						

DE ENGLISH 11 COLLEGE COMPOSITION			MCPS Course	DE1600A	High School Credits Weighted			Graduation Requirement	✓	
			Code	DE1000A	Credit Type	English		SOL Test(s) Required	✓	
Dual Enrolled	✓		EW RIVER	NRCC Course Code(s)	ENG 111 & ENG 112	College Credits		6	TRANSFER VIRGINIA	/
Grade Level	de Level 11 Prerequisite(s) English 10 *					•	•			

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 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 9-10 and 195-197) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

NOTE: Beginning in the 2023-24 school year, all students in **English 11, 11AP, 11DE** will submit an argumentative paper for inclusion in their High School Writing Portfolio which will be evaluated along with assigned papers in English 9 and English 10 to award a Verified Credit in Writing.

AHS	•	
BHS		Offered at BHS as DE/AP English 11 Only
CHS		Offered at CHS as DE/AP English 11 Only
EMHS		Offered at EMHS as DE/AP English 11 Only

DE/AP ENGLISH 11				MCPS Course Code	DE1196A	High School Credits Weighted			Graduation Requirement	✓
LANGUAGE & COMPOSITION			Credit Type			English		SOL Test(s) Required	~	
Dual Enrolled	✓	NE Com	EW RIVER	NRCC Course Code(s)	ENG 111 & ENG 112	College Credi	ts	6	TRANSFER VIRGINIA	/
Grade Level 11 Prerequisite(s)			English 10) *						

Course Description: This course combines 1196A and DE1600A. Included in this course will be NRCC's College Success Skills (SDV 100) which is required for students to receive a degree from NRCC for which students will receive 1 college credit from NRCC.

AHS		
BHS	•	Also offered at BHS as AP English 11 (based on student interest and the availability of qualified staff)
CHS	•	This course may be paired with DE/AP US History or AP US History in a "shared block" that meets daily for the full school year at CHS. In this scheduling format, students who take DE/AP English 11 must also take DE/AP US History or AP US History.
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 9-10</u> and <u>195-197</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.

NOTE: Beginning in the 2023-24 school year, all students in **English 11, 11AP, 11DE** will submit an argumentative paper for inclusion in their High School Writing Portfolio which will be evaluated along with assigned papers in English 9 and English 10 to award a Verified Credit in Writing.

			MCDC	High School Credits			Graduation	./	
VIDCINIA 8 II	C LUCTO	av.	MCPS Course	23600	Weighted			Requirement	
VIRGINIA & U.	VIRGINIA & U.S. HISTORY				History / SOL Test(s)		SOL Test(s)	./	
		Code	Credit Type		Social Science	es	Required	•	
Grade Level	11	Prerequisite(s)							

Course Description: This course includes a study of the development of American ideals and institutions through the major events, eras, and personalities of U.S. history from the age of discovery through the modern era. The course provides a perspective on the relationship between the past and contemporary issues. Virginia's history is emphasized from the colonial period through the Civil War period. This course further develops and refines the previously learned writing and thinking skills in interpreting charts, graphs, and maps. Other skills emphasized are developing and understanding of events as a part of a chronological sequence; developing problem-solving and critical thinking skills; organizing, analyzing, interpreting, and synthesizing information.

NOTE: Beginning in the 2022-23 school year, all students in VA US History / AP US History / DE US History who must earn a verified credit for social studies will complete three 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 Standards of Learning end-of-course examination.*)

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

		AD: NA	MCPS	High School Credits			Graduation			
AD II C HISTOR	AP	Course Code	2319A	Weighted		✓	Requirement	•		
AP U.S. HISTORY				Credit Type	History /		SOL Test(s)	✓		
						Social Science	es	Required		
Grade Level	11	Prerequisite(s)	Students should be able to read a college-level textbook and write grammatically							
Grade Level	11		correct, complete sentences.							

Course Description: The content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program for the AP U.S. History course. The course is designed to be the equivalent of a two-semester introductory college or university U.S. history course. In AP U.S. History students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 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 comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society. This course presents an in depth study of United States history from the colonial era to the present. It covers the various themes of American history, such as political, economic, social, military, international, and religious factors. Texts, assignments, readings, and tests are on the university level. Students at the end of the year may opt to take a national comprehensive examination which will be used by colleges for credits, admissions, and entrance into honors programs. Students should meet the demanding requirements of 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: Beginning in the 2022-23 school year, all students in VA US History / AP US History / DE US History who must earn a verified credit for social studies will complete three 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 Standards of Learning end-of-course examination.*)

		, , , , ,
AHS	•	This course may be paired with AP English 11 in a "shared block" that meets for the full school year at AHS. In this scheduling format, students who take AP U.S. History must also take AP English 11.
		· · · · · · · · · · · · · · · · · · ·
BHS	•	Also offered at BHS as DE/AP US History (based on student interest and the availability of qualified staff)
		Also offered at CHS as DE/AP US History (based on student interest and the availability of qualified staff)
CHS	•	This course may be paired with DE/AP English 11 in a "shared block" that meets for the full school year at CHS.
		In this scheduling format, students who take AP U.S. History must also take DE/AP English 11.
EMHS		Offered at EMHS as DE/AP US History Only

DE II C HISTORY				MCPS Course	DE2951	High School Credits Weighted			Graduation Requirement	✓
DE U.S. HISTORY			Code	DE2931	Credit Type History / Social Science			SOL Test(s) Required	✓	
Dual Enrolled	✓	NE Com Co	NEW RIVER		HIS 121 & HIS 122	College Credit	ts	6	TRANSFER VIRGINIA	,
Grade Level 11 Prerequisite(s)			See Below	*	•					

Course Description: This course is based on NRCC syllabi for United States History to 1877 and United States History Since 1865. To meet NRCC requirements, the HIS 121 portion of the course introduces the history of the United States from its origins to 1877, and includes the European exploration, development of the American colonies and their institutions, the Revolution, major political, social and economic developments, geographical expansion, the Civil War, and Reconstruction. The HIS 122 portion of the course introduces the history of the United States from 1865 to present, and includes major political, social and economic developments since 1865, overseas expansion, the two world wars, the Cold War and the post-Cold War era. DE U.S. History also addresses the Virginia Standards of Learning for Virginia & U.S. History. Students must complete the HIS 121 portion of this course with a D or better in order to advance to the HIS 122 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 <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

NOTE: Beginning in the 2022-23 school year, all students in VA US History / AP US History / DE US History who must earn a verified credit for social studies will complete three 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 Standards of Learning end-of-course examination.)

continuca	continued use of the traditional standards of Ecaniming end of Course examination.									
VIRTUAL DE U.S. HISTORY		DE2951V	Same as DE2951 except delivered virtually.							
AHS	•									
BHS		Offered at	Offered at BHS as DE/AP US History Only							
CHS	•	Offered at CHS as DE/AP US History Only								
EMHS	•	Offered at EMHS as DE/AP US History Only								

DE /AD II C HISTORY			AP [*]	MCPS	DE2319A	High School Credits Weighted		1	Graduation Requirement	✓	
DE/AP U.S. HISTORY						Course Code	Credit Type	History / Social Science	es	SOL Test(s) Required	✓
Dual Enrolled	~	/	■ NE Com	EW RIVER	NRCC Course Code(s)	HIS 121 & HIS 122	College Credits 6		TRANSFER VIRGINIA	′	
Grade Leve	el		11	Prerequisite(s)	See Below	/ *					
Course Des	cripti	on	: This cou	rse combines 2319	9A and DE2	951					
AHS											
BHS	•		Also offer	ed at BHS as AP US	History (ba	sed on student int	erest and the av	ailability of quali	fied	staff)	
CHS	•		Also offered at CHS as AP US History (based on student interest and the availability of qualified staff) This course may be paired with DE/AP English 11 in a "shared block" that meets for the full school year at CHS. In this scheduling format, students who take DE/AP U.S. History must also take DE/AP English 11.								
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 9-10</u> and <u>195-197</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.

		MCDC		High School Credits			Graduation			
AD FUDODEAN	LUCTORY		MCPS Course	2399A	Weighted		✓	Requirement		
AP EUROPEAN	HISTORY		Code		Cradit Tura	History /		SOL Test(s)	/	
			Code		Credit Type	Social Science	es	Required	ľ	
Grade Level	10	Prerequisite(s)	World History & Geography to 1500 AD. Students should be able to read a							
Graue Level	10	rieiequisite(s)	college-level textbook and write grammatically correct, complete sentences.							

Course Description: The content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program for the AP European History course. The course is designed to be the equivalent of a two-semester introductory college or university European history course. In AP European History students investigate significant events, individuals, developments, and processes in four historical periods from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course also provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; individual and society; and national and European identity. This course covers the history of Europe from 1450 to the present. The political, military, economic, geographic, cultural, and social factors that underpin the modern political order are examined in depth. Students will develop critical thinking skills through analysis and interpretation of primary and secondary sources. Research and writing skills will be emphasized, as will technique for mastery of document-based questions.

AHS	•	This course may be paired with English 10 Honors in a "shared block" that meets for the full school year at AHS. In this scheduling format, students who take AP Euro must also take English 10H.
BHS	•	In this scheduling format, students who take All Euro must also take English 1011.
CHS	•	This course may be paired with English 10 Honors in a "shared block" that meets for the full school year at CHS. In this scheduling format, students who take AP Euro must also take English 10H.
EMHS	•	

			VD.	MCPS		High School C	redits	1	Graduation	
AP WO	RLD HIS	TORY:	TORY: Weighted Weighted			✓	Requirement			
MODER	RN			Code	23801A	Credit Type		•	SOL Test(s) Required	
Grade Le	vel		Prerequisite(s)							
sources; continuit connection	developions y and char ons amor	ng historica ange over ti ng historica	e same skills, pract I arguments; makir ime. The course pr I developments in ,, economic system	ng historical ovides six th different tim	connections; a emes that stud es and places:	nd utilizing reaso lents explore thro humans and the	ning about com oughout the cou environment, cu	paris rse i ultur	son, causation, and order to make all developments	nd
AHS										
AHS BHS	•									
	•									

AP WORL	.D HIST	TORY:	AP.	MCPS Course	220024	High School C Weighted	credits	1	Graduation Requirement
ANCIENT				Code	23802A	Credit Type		•	SOL Test(s) Required
Grade Level Prerequisite(s)									
	-		ove – This course i decided by the Co		-			also	a working course
AHS									
BHS									
CHS									

Note: AP World History: Modern and AP World History: Ancient are two separate courses with separate AP Exams. Students are **NOT** required to take both AP World History: Modern and AP World History: Ancient.

	GEOMETRY			MCPS		High School C	redits	1	Graduation	✓
GEOMET	RY			Course Code	31430	Credit Type	Math		Requirement SOL Test(s) Required	✓
Grade Leve	el	9-11	Prerequisite(s)	Algebra I					•	
proofs, ind	irect pr	oofs, coord	nd reasoning to juinate proofs, algebraic	oraic metho skills, will	ods, and verbal and be used. Graphin	rguments. A variong calculators will	ety of applications of the used to ass	ons a ist in	nd general teaching and	
GEOMETRY and problem		and problem sol mathematics co	ving. It is d	esigned for stude	m and includes a ents who have de the demands of	monstrated su	ccess	in previous	on	
AHS	•	The hono	he honors-level course is not offered at AHS.							
BHS	•			•						
CHS	•				·					
EMHS	•									

			MCPS		High School C	redits	1	Graduation	
ALGEBRA, FUI	NCTIONS,	& DATA	Course	31340	Weighted			Requirement	
ANALYSIS (AFDA)			Code	31340	Cradit Type	Math		SOL Test(s)	
,	` ,		Code		Credit Type	IVIALII		Required	
Grade Level	Grade Level 9-12 Prerequisite(s)		Algebra I						

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	•	

			MCDC		High School C	redits	1	Graduation	./
ALGEBRA II			MCPS Course	31350	Weighted			Requirement	ľ
			Code		Credit Type	Math	SOL Test(s)	SOL Test(s)	./
			Code		Credit Type	iviatii		Required	ľ
Grade Level	9-12	Prerequisite(s)	Algebra I	& Geometry					

Course Description: This course provides a thorough treatment of algebraic concepts through the study of functions, polynomials, rational expressions, complex numbers, exponential and logarithmic equations, arithmetic and geometric sequences and series, and data analysis. Emphasis is placed on the mechanics of algebra with real world applications and modeling. A transformational approach to graphing is used with families of functions. Numerical, graphical, and algebraic representations and solutions will be emphasized. Graphing utilities, especially graphing calculators, are integral to the course.

ALGEBRA II HONORS	I	3135H	This course extends the Algebra II curriculum and includes additional opportunities for application and problem solving. It is designed for students who have demonstrated success in previous mathematics courses and are eager to meet the demands of a more rigorous and accelerated course.
AHS	•		
BHS	•		
CHS	•		
EMHS	•	The honor	rs-level course is not offered at EMHS.

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 <u>English 12</u>, <u>AP English 12</u> or <u>DE English 12</u> (AP English 12 requires English 11 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 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</u>, <u>AP Government & Politics: United States or DE US Government</u> (AP US Government requires 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

ELECTIVE COURSES (See <u>Graduation Requirements</u>)

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

					High School Credits			Graduation	./
ENGLISH 12			MCPS Course	11600	Weighted			Requirement	ľ
ENGLISH 12		Code	11000		English		SOL Test(s)		
			code		Credit Type	English		Required	
Grade Level	12	Prerequisite(s)	English 11					_	

Course Description: In this course, students will analyze British literature and literature of other cultures. In addition, students will read informational and technical texts and continue to develop their own reading-process skills. Students will apply these reading skills in other content areas. Students will produce informational and expository papers that are logically organized and contain clear and accurate ideas. They will produce well-documented research papers, using a standard method of documentation. Students will also develop communication and collaborative skills necessary for both college and the professional workplace.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

AP ENGLISH 12		AP ²	MCPS	11054	High School Credits Weighted		1	Graduation Requirement	✓
LITERATURE & COMPOSITION			Course Code	1195A	Credit Type	English		SOL Test(s) Required	
Grade Level	12	Prerequisite(s)		1 and the ability to	•	J		el texts and apply	,

Course Description: The content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program for the AP English Literature and Composition course. The course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. This course prepares students for the Advanced Placement English Literature and Composition exam, which concentrates on the genres of poetry, novels, and drama. The course will emphasize British literature. Students will be expected to think critically, to synthesize literature, and to write effectively. Students are expected to do many timed-writing experiences and to develop extended persuasive as well as analytical essays and documented papers.

AHS	•	This course may be paired with AP Government in a "shared block" that meets daily for the full school year at AHS. In this scheduling format, students who take English 12 AP must also take AP Govt.						
BHS	•	Also offered at BHS as DE/AP English 12 (based on student interest and the availability of qualified staff)						
CHS		Offered at CHS as DE/AP English 12 Only						
EMHS		Offered at EMHS as DE/AP English 12 Only						

DE ENGLISH	DE ENGLISH 12 COLLEGE COMPOSITION			MCPS Course	DE1600B	High School C Weighted	redits	1	Graduation Requirement	✓
COLLEGE CO				Code		Credit Type	English		SOL Test(s) Required	
Dual Enrolled	✓	NE Com Co	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 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 9-10 and 195-197) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

AHS	
BHS	•
CHS	•
EMHS	

THIS COURSE IS FOR SENIORS WHO DID NOT TAKE DE ENGLISH 11

DE ENGLISH 12 BRITISH LITERATURE & LITERATURE OF OTHER CULTURES			MCPS Course Code	DE1601 -	High School Credits Weighted			Graduation Requirement	✓	
					Credit Type	English		SOL Test(s) Required		
Dual Enrolled	✓	■ NEW RIVER Community College		NRCC Course Code(s)	ENG 245 & ENG 225	College Credits			TRANSFER VIRGINIA	r
Grade Level 12 Prerequisite(s)			DE English 11 or AP English 11 with a score of 4 or higher on the AP Exam *							

Course Description: This course is based on NRCC syllabi for ENG 245 (British Literature) and ENG 225 (Reading Literature: Culture and Ideas). To meet NRCC requirements, the ENG 245 portion of the course examines British literary traditions and texts from diverse time periods, genres, and authors, as well as develops critical thinking and interpretive skills through close reading, discussion, and analysis of literary texts in their historical, cultural, social, and/or literary contexts. The ENG 225 portion of the course examines a set of literary texts linked by a particular theme, with inquiry into the historical, cultural, and/or social contexts of the texts and the theme, as well as emphasizes interpretive and critical analysis skills developed through close reading and intertextual study, as well as highlights an exploration of cultural ideas. Engages works of diverse genres, authors, and time periods. Specific themes will vary by section. DE English 12 also addresses the Virginia Standards of Learning for English 12.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

AHS	•	
BHS		Offered at BHS as DE/AP English 12 Only
CHS		Offered at CHS as DE/AP English 12 Only
EMHS		Offered at EMHS as DE/AP English 12 Only

DE/AP ENGLISH 12			MCPS	DE1195A	High School Credits Weighted			Graduation Requirement	✓	
LITERATUR	LITERATURE & COMPOSITION			Course Code	DEIISSA	Credit Type	English		SOL Test(s) Required	
Dual Enrolled	✓	NE Com Co	NEW RIVER Community College		ENG 245 & ENG 225	College Credits			TRANSFER VIRGINIA	7
Grade Level		12	Prerequisite(s)	DE English 11 or AP English 11 with a score of 4 or higher on the AP Exam *						

Course Description: This course combines 1195A and DE1601. Included in this course will be NRCC's College Success Skills (SDV 100) which is required for students to receive a degree from NRCC for which students will receive 1 college credit from NRCC.

AHS		
BHS	•	Also offered at BHS as AP English 12 (based on student interest and the availability of qualified staff).
CHS	•	This course may be paired with AP Government in a "shared block" that meets daily for the full school year at CHS. In this scheduling format, students who take DE/AP English 12 must also take AP Govt.
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 9-10</u> and <u>195-197</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 Credits			Graduation	√
VIDCINIA 9 II C COVEDNIMENT		Course	24400	Weighted			Requirement		
VIRGINIA & U.	VIRGINIA & U.S. GOVERNMENT			24400		History /		SOL Test(s)	
			Code	Code	Credit Type	Social Science	es	Required	
Grade Level	12	Prerequisite(s)							

Course Description: This course that examines the basic structure of the different levels of government, national, state and local. It provides an in-depth study of the U.S. Constitution and its amendments, as well as a thorough study of the foundations and principles upon which democratic government rests. The branches of government and the powers inherent to each are thoroughly examined, as well as current events and their worldwide effects. Included is a study of the Virginia Constitution and local governing bodies. Characteristics of the U.S. economic system are explored. Importance is placed on the practical application of political theory and special emphasis is given to basic democratic values, the importance of citizen participation in the democratic process, and the understanding of social, political, economic issues and current events. Students are encouraged to participate in the political life of their community, by registering to vote and voting, by attending political and/or public meetings and by writing letters or speaking in public forums. Community service will also be strongly encouraged.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

AP GOVERNME	NT	AP.	MCPS Course	2445A	High School C Weighted	redits	1	Graduation Requirement	✓		
& POLITICS: UNITED STAT		ATES	Code	2445A	Credit Type	History / Social Science	es	SOL Test(s) Required			
Grade Level	Level 12 Prerequisite(s)			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 corresponds to the syllabus of the College Board Advanced Placement Program for the AP United States Government and Politics course. The course introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning assess causes and consequences of political events, and interpret data to develop evidence-based arguments. The course is a critical study, in survey fashion, of government and politics in the United States. The use of primary sources is integrally incorporated in the course of study. Students should expect an in-depth analysis of the American political system.

AHS	•	This course may be paired with AP English 12 in a "shared block" that meets for the full school year at AHS. In this scheduling format, students who take AP Government must also take AP English 12.
BHS	•	Also offered at BHS as DE/AP Government (based on student interest and the availability of qualified staff)
CHS	•	Also offered at CHS as DE/AP US Government (based on student interest and the availability of qualified staff) This course may be paired with DE/AP English 12 in a "shared block" that meets for the full school year at CHS. In this scheduling format, students who take AP Government must also take DE/AP English 12.
EMHS	•	

DE U.S. GOVERNMENT			MCPS		High School Credits Weighted			Graduation Requirement	✓	
			Course C	DE2950	Credit Type	History / Social Science	es	SOL Test(s) Required		
Dual Enrolled	✓	■ None	EW RIVER	NRCC Course Code(s)	PLS 135 & PLS 136	College Credits		6	TRANSFER VIRGINIA	′
Grade Level		12	Prerequisite(s)	See Below	*	•				

Course Description: This course is based on NRCC syllabi for U.S. Government & Politics and State & Local Politics. To meet NRCC requirements, the PLS 135 portion of the course teaches the political structure, processes, institutions, and policymaking of the US national government, focuses on the three branches of government, their interrelationships, and how they shape policy, and addresses federalism; civil liberties and civil rights; political socialization and participation; public opinion, the media; interest groups; political parties; elections; and policymaking. The PLS 136 portion of the course teaches structure, powers, and functions of state and local government in the United States as related to federalism; constitutionalism; elections; powers of legislative, executive, and judicial powers of state and local government; state-local-federal relations; fiscal matters; metropolitan issues; and policy issues, like health, education, criminal justice and welfare. The assignments in the course require college-level reading fluency and coherent communication through written reports. DE U.S. Government also addresses the Virginia Standards of Learning for Virginia & U.S. Government. Students must complete the PLS 135 portion of this course with a D or better in order to advance to the PLS 136 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 <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

VIRTUAL DE U.S. GOVERNM	ENT	DE2950V	Same as DE2950 except delivered virtually.					
AHS								
BHS		Offered at	Offered at BHS as DE/AP Government Only					
CHS		Offered at	Offered at CHS as DE/AP Government Only					
EMHS		Offered at	EMHS as DE/AP Government Only					

DE/AP GOVERNMENT			MCPS Course	DE2445A	High School Credits Weighted		1	Graduation Requirement	✓	
& POLITICS:	& POLITICS: UNITED STATES			Code	DL2443A	Credit Type History / Social Sciences			SOL Test(s) Required	
Dual Enrolled	>	NE Com	NEW RIVER		PLS 135 & PLS 136	College Credit	ts	6	TRANSFER VIRGINIA	
Grade Level Prerequisite(s)		See Below	*							

Course Description: This course combines 2445A and DE2950.

AHS		
BHS	•	Also offered at BHS as AP US Government (based on student interest and the availability of qualified staff)
CHS	•	Also offered at CHS as AP US Government (based on student interest and the availability of qualified staff) This course may be paired with DE/AP English 12 in a "shared block" that meets for the full school year at CHS. In this scheduling format, students who take DE/AP Government must also take DE/AP English 12.
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 9-10</u> and <u>195-197</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.

AP GOVERNMENT & POLITICS: COMPARATIVE		ΔD	MCPS		High School C	redits	1	Graduation	./
			2450A	Weighted		1	Requirement	<i>V</i>	
		ΓIVE	Course Code	2430A	Cradit Tuna	History /	SOL Test(s)		
			Code		Credit Type	Social Science	es	Required	
Grade Level	12	Prerequisite(s)							

Course Description: The content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program for the AP Comparative Government and Politics course. The course introduces students to the rich diversity of political life outside the United States. The course uses a comparative approach to examine the political structures; policies; and the political, economic, and social challenges among six selected countries: Great Britain, Mexico, Russia, Iran, China, and Nigeria. Additionally, students examine how different governments solve similar problems by comparing the effectiveness of approaches to many global issues. The course focuses on specific representative countries (comparative systems) so that the student obtains an understanding of the diversity of world political structures and politics.

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

WORLD LANGUAGES

ASL I: AMERICAN SIGN LANGUAGE	MCPS	59900	High School Credits			Graduation		
	-		Weighted			Requirement		
	Course Code		Cradit Tura	World Language		SOL Test(s)		
		Code	Credit Type		World Language		Required	
Grade Level	Prerequisite(s)							

Course Description: This course introduces students to the history of American Sign Language (ASL) and the Deaf Community in the U.S. and beyond. It promotes an awareness of deaf culture as well as development of the language. Students have an opportunity to succeed in a hands-on, visual-based language. Students begin the sequential development of ASL communication skills and develop ASL receptive ("listening") skills and expressive ("talking") signing skills to understand and communicate basic information about themselves and others. Students do classroom presentations in ASL.

This offering is in keeping with the Virginia State Board of Education's recognition of ASL as a foreign language for high school graduation. However, this course may not satisfy foreign language requirements at some colleges and universities. Virginia colleges/universities that accept ASL as a foreign language include Virginia Tech, University of Virginia, Radford University and more. See ASL instructor for list of nation-wide colleges/universities that accept ASL for foreign language admissions credit.

AHS	•
BHS	•
CHS	•
EMHS	•

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

ASI II. AMERICAN SIGNI ANGUACE	MCPS	59950	High School Credits			Graduation		
	_		Weighted			Requirement		
ASL II: AMERICAN SIGN LANGUAGE			Course Code	Credit Type	World Languag		SOL Test(s)	
				Credit Type	World Langua	ige	Required	
Grade Level	Prerequisite(s)	C average or better in ASL I						

Course Description: This course reinforces and expands communication skills and broadens student knowledge of Deaf culture. American Sign Language II builds upon topics, vocabulary, and grammar introduced in ASL I. Students work on interpretation and expressive communication skills in ASL and do various types of classroom presentations. Students are encouraged to communicate about people in a more abstract way and to describe in more detail their school environment. Students continue to learn appropriate cultural behaviors and the history of the U.S. deaf community.

AHS	•
BHS	•
CHS	•
FMHS	•

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

ASI III. AMEDICAN SICNI ANGUACE	MCDS	59970	High School Credits			Graduation		
	MCPS		Weighted			Requirement		
ASL III: AMERICAN SIGN LANGUAGE			Course Code	Credit Type	Tune Morld Langua		SOL Test(s)	
					World Langua	ige	Required	
Grade Level	Prerequisite(s)	C average or better in ASL II						

Course Description: This course reinforces and expands communication skills and student knowledge of Deaf culture. Students increase their understanding of the language through a variety of literary genres including ASL story-telling and poetry. Students also increase their understanding of the langue and culture through the reading of a wide variety of articles, short stories, novels and professional literature. Students continue to develop their language usage skills, both receptively and expressively and are expected to work independently on translations. Students present the translations to the teacher or the class.

AHS	•
BHS	•
CHS	•
EMHS	•

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

	MCPS	59980	High School Credits			Graduation		
ASL IV: AMERICAN SIGN LANGUAGE				Weighted			Requirement	
			Course Code	Cuadit Tuna	World Language		SOL Test(s)	
				Credit Type	World Langua	ige	Required	
Grade Level	Prerequisite(s)	C average	C average or better in ASL III					

Course Description: This course emphasizes correct grammatical and syntactical use and analysis of language. It continues to build on the topics, vocabulary, grammar, and cultural issues developed throughout ASL course sequence. Sign Language IV students may have the opportunity to teach appropriate lessons to preschool, elementary, and/or beginning ASL students. Students in this course are expected to work independently on translations and present the translations to the teacher or the class.

AHS	•
BHS	•
CHS	•
EMHS	•

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

CHINESE I	MCDC		High School Credits		1	Graduation		
	MCPS	F9100	Weighted			Requirement		
		Course Code	58100	Credit Type	World Langua	ige	SOL Test(s) Required	
Grade Level	Prerequisite(s)							

Course Description: In this course, students will develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students will learn the four language skills in Mandarin Chinese – listening, speaking, reading and writing – with an emphasis on the ability to communicate orally and in writing. Students begin to explore and study the themes of Personal and Family Life, School Life, Social Life, and Community Life.

AHS	•
BHS	•
CHS	•
EMHS	•

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

FRENCH I	MCPS		High School Credits		1	Graduation		
	_	51100	Weighted			Requirement		
PRENCHI		Course Code	31100	Cuadit Tuna	Morld Langua	~~	SOL Test(s)	
		Code		Credit Type	World Langua	ige	Required	
Grade Level	Prerequisite(s)							

Course Description: This course concentrates on conversational approach to the language, in preparation, for example, for travel and tourism or business associations. Student acquisition of practical vocabulary and grammatical concepts provide a basis for simple listening, speaking, reading and writing. Additionally, students will begin to learn about France and other francophone countries. The course provides the linguistic understanding of the language in preparation for further scholarship.

AHS	•
BHS	•
CHS	•
FMHS	•

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

			MCPS		High School C	Credits	1	Graduation	
FRENCH			Course	51200	Weighted			Requirement	
FRENCH	11		Code	31200	Credit Type	World Langua	age	SOL Test(s) Required	
Grade Leve	el	Prerequisite(s)	C average	or better in Fren	ch I	ı		•	
Course De	scriptio	n: This course further develo	ps speaking	g, listening, readin	ng, and writing s	kills, broadenin	g the	formal study of	
		bulary. Students will continu							
conducted	in Fren	ch.							
AHS	•								
BHS	•	May be offered at any high a	لمحمط لممطم	lan sufficient stud	ont:ntorost/dom		انطمانا	liturat avalitiad ata	ττ
CHS	•	May be offered at any high s	ciiooi baseu	i on sumcient stude	ent interest/den	ianu anu the ava	IIIabii	iity oi quaiilleu sta	111.
EMHS	•								
					High School C	Credits	1	Graduation	
EDENICH			MCPS	54200	Weighted			Requirement	
FRENCH III Grade Level		Course	51300	Cuadit Tours	Mandal anassa		SOL Test(s)		
			Code		Credit Type	World Langua	age	Required	
Grade Leve	el	Prerequisite(s)	C average	or better in Fren	ch II				
Course De	scriptio	n: This course introduces adv	anced grar	nmatical structure	es and vocabula	ry and encoura	ge cr	eative expression	า
		vrite short compositions and							
French, wi	th an in	troduction to French literatur	e and histo	ry. The class will	be conducted a	lmost entirely ir	n Fre	nch.	
AHS	•								
BHS	•	May be offered at any high s	chool hasad	l on sufficient stud	ant interest/dem	and and the ava	ilahil	lity of qualified sta	ff
CHS	•	iviay be offered at any high s	cilooi baseu	i on sumcient staat	ent interest/den	ianu anu the ava	illabii	iity of quaimed sta	111.
EMHS	•								
_									
			MCDS		High School C	Credits	1	Graduation	
ERENCH	IV/		MCPS	51400	High School C	credits	1	Graduation Requirement	
FRENCH	IV		Course	51400	Weighted			Requirement SOL Test(s)	
			Course Code		Weighted Credit Type	Credits World Langua		Requirement	
Grade Leve	el	Prerequisite(s)	Course Code C average	e or better in Fren	Weighted Credit Type	World Langua	age	Requirement SOL Test(s) Required	
Grade Leve	el scriptio	n: In this course, students wi	Course Code C average	or better in Frencto improve their I	Weighted Credit Type ch III listening, speaki	World Langua	age d wri	Requirement SOL Test(s) Required ting skills through	
Grade Level Course Des	el scription of more	n: In this course, students wi complex grammatical structu	Course Code C average Il continue ares and voc	e or better in Frenc to improve their I cabulary, as well a	Weighted Credit Type ch III listening, speaki	World Languang, reading, and	age d wri	Requirement SOL Test(s) Required ting skills through	
Grade Leve Course De the study of Students w	el scription of more vill conti	n: In this course, students wi	Course Code C average Il continue ares and voc	e or better in Frenc to improve their I cabulary, as well a	Weighted Credit Type ch III listening, speaki	World Languang, reading, and	age d wri	Requirement SOL Test(s) Required ting skills through	
Grade Leve Course De the study of Students w	scription of more vill continue.	n: In this course, students wi complex grammatical structu	Course Code C average Il continue ares and voc	e or better in Frenc to improve their I cabulary, as well a	Weighted Credit Type ch III listening, speaki	World Languang, reading, and	age d wri	Requirement SOL Test(s) Required ting skills through	
Grade Leve Course Des the study of Students w AHS BHS	el scription of more vill conti	n: In this course, students wi complex grammatical structu	Course Code C average Il continue ares and voc one countri	e or better in Frencto improve their l cabulary, as well a es as well. The cla	Weighted Credit Type ch III listening, speaki as an artistic, lite ass is conducted	World Languang, reading, and erary, and history almost entirely	age d wri rical y in F	Requirement SOL Test(s) Required ting skills through survey of France rench.	•
Grade Leve Course De the study of Students w AHS BHS CHS	el scription of more vill conti	n: In this course, students wi complex grammatical structu nue to study other francopho	Course Code C average Il continue ares and voc one countri	e or better in Frencto improve their l cabulary, as well a es as well. The cla	Weighted Credit Type ch III listening, speaki as an artistic, lite ass is conducted	World Languang, reading, and erary, and history almost entirely	age d wri rical y in F	Requirement SOL Test(s) Required ting skills through survey of France rench.	•
Grade Leve Course Des the study of Students w AHS BHS	el scription of more vill conti	n: In this course, students wi complex grammatical structu nue to study other francopho	Course Code C average Il continue ares and voc one countri	e or better in Frencto improve their l cabulary, as well a es as well. The cla	Weighted Credit Type ch III listening, speaki as an artistic, lite ass is conducted	World Languang, reading, and erary, and history almost entirely	age d wri rical y in F	Requirement SOL Test(s) Required ting skills through survey of France rench.	•
Grade Leve Course De the study of Students w AHS BHS CHS	el scription of more vill conti	n: In this course, students wi complex grammatical structu nue to study other francopho	Course Code C average Il continue ares and voc one countri	e or better in Frencto improve their l cabulary, as well a es as well. The cla	Weighted Credit Type ch III listening, speaki as an artistic, lite ass is conducted ent interest/dem	World Langua ng, reading, and erary, and histo I almost entirely nand and the ava	age d wri rical y in F	Requirement SOL Test(s) Required ting skills through survey of France rench.	•
Grade Leve Course De the study of Students w AHS BHS CHS	el scription of more vill conti	n: In this course, students wi complex grammatical structu nue to study other francopho	Course Code C average Il continue ares and voc one countri	e or better in Frencto improve their l cabulary, as well a es as well. The cla	Weighted Credit Type ch III listening, speaki as an artistic, lite ass is conducted ent interest/dem	World Langua ng, reading, and erary, and histo I almost entirely nand and the ava	age d wri rical y in F	Requirement SOL Test(s) Required ting skills through survey of France rench. lity of qualified sta	•
Grade Leve Course De the study of Students w AHS BHS CHS	el scriptio of more vill conti	n: In this course, students wi complex grammatical structu nue to study other francopho	Course Code C average Il continue ares and voc one countri	e or better in Frencto improve their l cabulary, as well a es as well. The cla	Weighted Credit Type ch III listening, speaki as an artistic, lite ass is conducted ent interest/dem	World Langua ng, reading, and erary, and histo I almost entirely nand and the ava	age d wri rical y in F	Requirement SOL Test(s) Required ting skills through survey of France rench. lity of qualified state of the	•
Grade Leve Course Des the study of Students w AHS BHS CHS EMHS	el scriptio of more vill conti	n: In this course, students wi complex grammatical structu nue to study other francopho	Course Code C average Il continue ares and voc one countri chool based	e or better in Frence to improve their I cabulary, as well a es as well. The cla	Weighted Credit Type ch III listening, speaki as an artistic, lite ass is conducted ent interest/dem	World Langua ng, reading, and erary, and histo I almost entirely nand and the ava	age d writerical y in F	Requirement SOL Test(s) Required ting skills through survey of France rench. lity of qualified state of the	•
Grade Leve Course Desthe study of Students wat AHS BHS CHS EMHS	el scriptio of more vill conti	n: In this course, students wi complex grammatical structu nue to study other francopho May be offered at any high s	Course Code C average II continue ares and voc one countri chool based MCPS Course Code	e or better in Frence to improve their I cabulary, as well a es as well. The cla	Weighted Credit Type ch III listening, speaki as an artistic, lite ass is conducted ent interest/dem High School C Weighted Credit Type	World Langua ng, reading, and erary, and histo d almost entirely nand and the ava	age d writerical y in F	Requirement SOL Test(s) Required ting skills through survey of France rench. lity of qualified state of the	•
Grade Leve Course Dec the study of Students w AHS BHS CHS EMHS	el scriptio of more vill conti	n: In this course, students wi complex grammatical structurue to study other francophe May be offered at any high s	Course Code C average II continue ares and voc one countri chool based MCPS Course Code C average	e or better in Frence to improve their I cabulary, as well a es as well. The cla I on sufficient stude 51500	Weighted Credit Type ch III listening, speaki as an artistic, lite ass is conducted ent interest/dem High School C Weighted Credit Type ch IV	World Langua ng, reading, and erary, and histor d almost entirely nand and the ava credits	d writerical y in F	Requirement SOL Test(s) Required ting skills through survey of France rench. lity of qualified state of the	aff.
Grade Leve Course Des the study of Students w AHS BHS CHS EMHS FRENCH Grade Leve Course Des	el scriptio of more vill conti	n: In this course, students wi complex grammatical structurule to study other francophe. May be offered at any high s Prerequisite(s) n: This course continues to re-	Course Code C average II continue ares and voc one countri chool based MCPS Course Code C average	e or better in Frence to improve their I cabulary, as well are as well. The class on sufficient stude 51500	Weighted Credit Type ch III listening, speaki as an artistic, lite ass is conducted ent interest/dem High School C Weighted Credit Type ch IV ructures of Fren	World Languang, reading, and erary, and historial almost entirely and and the availand and the availand and Langua	arge d writing with the second secon	Requirement SOL Test(s) Required ting skills through survey of France rench. lity of qualified state of the	nff.
Grade Leve Course Desthe study of Students was AHS BHS CHS EMHS FRENCH Grade Leve Course Desconversation	el scription of more vill conti	n: In this course, students wi complex grammatical structurinue to study other francophe. May be offered at any high s Prerequisite(s) n: This course continues to reature from French authors, co	Course Code C average II continue ares and voc one countri chool based MCPS Course Code C average	e or better in Frence to improve their I cabulary, as well are as well. The class on sufficient stude 51500	Weighted Credit Type ch III listening, speaki as an artistic, lite ass is conducted ent interest/dem High School C Weighted Credit Type ch IV ructures of Fren	World Languang, reading, and erary, and historial almost entirely and and the availand and the availand and Langua	arge d writing with the second secon	Requirement SOL Test(s) Required ting skills through survey of France rench. lity of qualified state of the	nff.
Grade Leve Course Desthe study of Students water AHS BHS CHS EMHS FRENCH Grade Leve Course Desconversation class is contact the study of Students water AHS EMHS	el scription of more vill conti	n: In this course, students wi complex grammatical structurule to study other francophe. May be offered at any high s Prerequisite(s) n: This course continues to re-	Course Code C average II continue ares and voc one countri chool based MCPS Course Code C average einforce the ultural and	e or better in Frence to improve their I cabulary, as well a es as well. The cla I on sufficient stude 51500 e or better in Frence grammar and str current events, ar	Weighted Credit Type ch III listening, speaki as an artistic, lite ass is conducted ent interest/dem High School C Weighted Credit Type ch IV ructures of Fren nd listening activ	World Langua ng, reading, and erary, and histor d almost entirely nand and the ava credits World Langua ch IV. The mate vities to increas	arge d writing with the second secon	Requirement SOL Test(s) Required ting skills through survey of France rench. lity of qualified state of the	nff.
Grade Leve Course Desthe study of Students was AHS BHS CHS EMHS FRENCH Grade Leve Course Desconversation	el scription of more vill conti	Prerequisite(s) This course students with complex grammatical structurinue to study other francophers. May be offered at any high sometimes to react the course continues to react the course from French authors, countriely in French.	Course Code C average II continue ares and voc one countri chool based MCPS Course Code C average einforce the ultural and	e or better in Frence to improve their I cabulary, as well a es as well. The cla I on sufficient stude 51500 e or better in Frence grammar and str current events, ar	Weighted Credit Type ch III distening, speaking as an artistic, literates is conducted ass is conducted as a conducted as a conducted asset in the conducted as a conducted	World Languang, reading, and erary, and historial almost entirely and and the available world Langua ch IV. The matrixities to increas	age d writerical y in F lilabil age	Requirement SOL Test(s) Required ting skills through survey of France french. lity of qualified state of the state of th	nff.
Grade Leve Course Desthe study of Students water AHS BHS CHS EMHS FRENCH Grade Leve Course Destroyersation class is contact and the Course Destroyers and the Course Destroy	el scription of more vill conti	Prerequisite(s) This course continues to reactive from French authors, continues to reactive from French. Preserved in the service of the service from French authors, continues to reactive from French.	Course Code C average II continue ares and voc one countri chool based MCPS Course Code C average einforce the ultural and Not curren udent intere	e or better in Frence to improve their I cabulary, as well are as well. The class on sufficient stude of the	Weighted Credit Type ch III distening, speaking as an artistic, literates is conducted ent interest/dem High School Conducted weighted Credit Type ch IV ructures of French distening activities of multiple factor for multipl	World Languang, reading, and erary, and historial almost entirely mand and the available. World Languand the Languand child. The material control increase pers, including and/or current	age d writerical y in F lilabil age	Requirement SOL Test(s) Required ting skills through survey of France french. lity of qualified state of the state of th	nff.
Grade Leve Course Des the study of Students w AHS BHS CHS EMHS FRENCH Grade Leve Course Des conversation class is contact AHS BHS	el scription of more vill conti	Prerequisite(s) This course continues to reactive from French authors, continues to reactive from French. Preserved in the service of the service from French authors, continues to reactive from French.	Course Code C average II continue ares and voc one countri chool based MCPS Course Code C average einforce the ultural and Not curren udent intere	e or better in Frence to improve their I cabulary, as well a es as well. The cla I on sufficient stude 51500 e or better in Frence grammar and str current events, ar	Weighted Credit Type ch III distening, speaking as an artistic, literates is conducted ent interest/dem High School Conducted weighted Credit Type ch IV ructures of French distening activities of multiple factor for multipl	World Languang, reading, and erary, and historial almost entirely mand and the available. World Languand the Languand child. The material control increase pers, including and/or current	age d writerical y in F lilabil age	Requirement SOL Test(s) Required ting skills through survey of France french. lity of qualified state of the state of th	nff.

AP FRENCH LANGUAGE AND CULTURE



MCPS Course Code

5170A

High School Credits 1 Graduation
Weighted ✓ Requirement

Credit Type World Language SOL Test(s)
Required

Grade Level | Prerequisite(s) | C average or better in French IV

Course Description: The content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program for the AP French Language and Culture course. The course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in French. The course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

AHS	•
BHS	•
CHS	•
EMHS	•

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

		MCPS		High School C	redits	1	Graduation	
GERMAN I	_	52100	Weighted			Requirement		
GERIVIAINI		Course Code	32100	Credit Type	edit Type World Languag		SOL Test(s)	
		Code		Credit Type	vvoriu Langua	ge	Required	
Grade Level	Proroquisito(s)							

Grade Level Prerequisite(s)

Course Description: This course concentrates on the acquisition of practical vocabulary and grammatical concepts to provide a basis for simple listening, speaking, reading and writing skills. Aspects of German culture will be explored. The course stresses fundamental skills and knowledge that provides a basic preparation for travel and tourism and the linguistic understanding of language for further scholarship.

AHS	•
BHS	•
CHS	•
FMHS	•

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

GERMAN II	MCPS		High School C	redits	1	Graduation		
	_	52200	Weighted			Requirement		
GERIVIAN II		Course Code	32200	Credit Type	World Langua		SOL Test(s)	
		Code		Credit Type	World Langua	ige	Required	
Grade Level	Prerequisite(s)	C average or better in German I						

Course Description: This course further develops the four basic communications skills (speaking, listening, reading, and writing) skills by broadening the formal study of grammar and continued vocabulary building. The study of German culture will continue and students will use original sources as reading materials.

AHS	•
BHS	•
CHS	•
EMHS	•

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

GERMAN III		MCPS		High School C	credits	1	Graduation		
		Course 52300 Weighted			Requirement				
G2	•		Code	Credit Type World Language SOL Test(s) Required					
Grade Lev	el	Prerequisite(s)	C average	or better in Germ	ian II				
passive an	d subjur	 n: This course reviews previon active forms of verbs. Studen good conversational skills. A 	ts will exte	nd their vocabular	y, be introduce	d to more challe	engir	ng literature, and	
AHS	•								
BHS	•	March office data a bish o		Contract				ti afa difficultar	cc
CHS	•	May be offered at any high so	cnooi based	on sufficient stude	ent interest/dem	iand and the ava	ııabıı	ity of qualified sta	атт.
EMHS	•								

GERMAN IV			MCPS	High School C Weighted	High School Credits Weighted		Graduation Requirement		
GERMAN IV	Course 52400		Credit Type	World Language		SOL Test(s) Required			
Grade Lev	⁄el	Prerequisite(s)	C average	or better in Gei	rman III				
the applic	ation of	 In this course, students wi more complex grammatical states variety of topics including 6 	tructures an	d vocabulary. S	Students will stud	•			

		MCPS		High School Credits		1	Graduation	
GERMAN V		Course	52500	Weighted	ed		Requirement	
GERIVIAN V		Code	32300	Credit Type	World Langue	age	SOL Test(s) Required	
Grade Level	Prerequisite(s)	C average c	r better in Ger	man IV				
Course Description:	This course continues to re	inforce the g	rammar and st	tructures of Germ	an IV. The mat	erial	will focus on	
German conversatio comprehension.	n, literature written in Gerr	man, cultural,	historical and	current events, o	ns well as, listeni	ing a	ctivities to incred	ise
AHS		B/-4	l 66 1 - 1	to modeline for the				
BHS	biotovicul ot			to multiple facto	-			
	nistorical st	tudent interest, availability of certified staff, and/or current resources. Ients interested in this course should see their school counselor.						
CHS							dices.	

			MCPS		High School C	redits	1	Graduation Requirement	
SPANISH I			Course Code	55100	Weighted Credit Type	World Langua	World Language SOL Test(s) Required		
Grade Level		Prerequisite(s)						Kequirea	
basis for sim	ple list	 This course concentrates of tening, speaking, reading and adamental skills and knowled 	l writing ski	lls. The cultures	of Spanish speak	king countries w	ill be	•	
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

CDANICII			MCPS	55200	High School C Weighted	Credits	1	Graduation Requirement
SPANISH	PANISH II		Course Code	55200	Credit Type	World Langua	ige	SOL Test(s) Required
Grade Leve	el	Prerequisite(s)	C average	or better in Spa	anish I			
				Dasic Communi	cations skills (spe	aking, listening,	reac	ling, and writing)
through ind	creased	formal study of grammar and	•			-		ling, and writing) panish-speaking
through ind	creased	formal study of grammar and	•			-		· .
through inc countries v	creased	formal study of grammar and	•			-		· .
through inc countries v AHS	creased	formal study of grammar and	•			-		· .

CDANICI			MCPS	FF300	High School C Weighted	Credits	1	Graduation Requirement
SPANISH	1 1111		Course 55300 Cr	Credit Type	World Langua	ige	SOL Test(s) Required	
Grade Lev	⁄el	Prerequisite(s)	C average c	or better in Spa	anish II			
							• • • • •	and written
Vocabular	ry will be	ding authentic materials. Pre- introduced and students will h.	viously-learn	ed grammar w	vill be reviewed a	nd advanced gra	amm	atical studied.
Vocabular	ry will be	introduced and students will	viously-learn	ed grammar w	vill be reviewed a	nd advanced gra	amm	atical studied.
Vocabular speaking i	ry will be	introduced and students will	viously-learn	ed grammar w	vill be reviewed a	nd advanced gra	amm	atical studied.
Vocabular speaking i AHS	ry will be	introduced and students will	viously-learn	ed grammar w	vill be reviewed a	nd advanced gra	amm	atical studied.

Graduation

SPANISH	1 11/		Course	55400	Weighted			Requirement	
SPAINISH	IIV		Code	33400	Credit Type	World Language	Α Ι	SOL Test(s) Required	
Grade Leve	el	Prerequisite(s)	C average	or better in Span	ish III				
the applica	ation of I lections	n: In this course, students wi more complex grammatical s from classical and contempo	tructures ar	nd vocabulary and	d the study of au	thentic resources	s. St	tudents will stud	dy
AHS	•								
BHS	•								
CHS	•								
EMHS	•								
									_
			MCPS		High School C	redits		Graduation	
SPANISH	1 \/		Course	55500	Weighted			Requirement	
51 /(1051)			Code		Credit Type	World Language	0	SOL Test(s) Required	
Grade Leve	el	Prerequisite(s)	C average	or better in Span	ish IV				
	nversati	n: This course continues to re on, literature from Spanish a							
AHS BHS		historical stu		ntly offered due t est, availability o		ors, including and/or current re	esou	ırces.	

MCDS

High School Credits

	ΛD	MCDC		High School C	redits	1	Graduation	
AP SPANISH LANGUAGE		MCPS Course	5570A	Weighted		\	Requirement	
& CULTURE		Code	3370A	Credit Type	Morld Langua		SOL Test(s)	
		Code		Credit Type	World Langua	ige	Required	
Grade Level	Prerequisite(s)	C average	or better in Span	ish IV				

Students interested in this course should see their school counselor.

Course Description: The content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program for the AP Spanish Language and Culture course. The course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP Spanish Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The AP Spanish Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

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

			MCPS		High School C Weighted	redits	1	Graduation Requirement
SPANISH	VI		Course Code	55600	Credit Type	World Langua	ige	SOL Test(s) Required
Grade Leve	el	Prerequisite(s)	C average	or better in AP Sp	anish Language	& Culture		
	nversati	 n: This course continues to re ion, literature from Spanish a 		•	•			
AHS	•							
BHS	•	May be offered at any high s	chaal bacad	on sufficient stude	nt interest/dem	and and the ava	ilahil	ity of avalified staff
CHS	•	iviay be offered at any filgh s	ciiooi based	on summent stude	in interest/dem	and and the ava	IIabii	ity of qualified staff.
EMHS	•							

ENGLISH ELECTIVES

BHS CHS

EMHS

•

				MCDC		High School C	redits	1	Graduation	
WORLD M	VTLI	NOCV		MCPS Course	11650	Weighted			Requirement	
WORLD IVI	חווו	LUGI		Code	11030	Cradit Type	English Flosti		SOL Test(s)	
				Code		Credit Type	English Electiv	ve	Required	
Grade Level		9-12	Prerequisite(s)							
Course Descr	ription	: This cou	rse introduces stu	dents to ma	ajor themes, stori	es, and characte	ers in the mytho	logie	es of several	
different cult	tures.	The course	will concentrate of	on Greek ar	nd Roman mythol	ogy, but will also	include materi	al fr	om Norse, Celtic	·,
Native Amer	ican, <i>F</i>	African and	Egyptian mytholo	gy. The co	urse will be taugh	t using an interd	lisciplinary appr	oach	that considers	
literary and a	artistic	themes fro	om diverse perspe	ctives inclu	iding theology, so	ciology, anthrop	ology and histo	ry.		
AHS										
BHS										
CHS	•									
EMHS	•	•		•				•		•

CREATIN	CREATIVE WRITING / LITERARY MAGAZINE I		VE WRITING / MCPS Course 11710 High School Credits Weighted		redits	1	Graduation Requirement	
LITERAR			Code 11710		Credit Type English Electi		ive	SOL Test(s) Required
Grade Lev	/el	Prerequisite(s)						
	-	n: This course has a dual objegazine during the spring seme		•				•
quality lite fundamer	erary ma ntals of e	gazine during the spring seme diting. Students will serve as	ester. Stude	nts will receive	e feedback on the	ir own writing a	nd w	vill learn the
quality lite	erary ma ntals of e	gazine during the spring seme diting. Students will serve as	ester. Stude	nts will receive	e feedback on the	ir own writing a	nd w	vill learn the
quality lite fundamer promotion	erary ma ntals of e	gazine during the spring seme diting. Students will serve as	ester. Stude	nts will receive	e feedback on the	ir own writing a	nd w	vill learn the
quality lite fundamer promotion AHS	erary ma ntals of e	gazine during the spring seme diting. Students will serve as	ester. Stude	nts will receive	e feedback on the	ir own writing a	nd w	vill learn the

	_		MCPS		High School C	redits	1	Graduation
CREATIVE WRI	TING /		Course	11711	Weighted			Requirement
LITERARY MAG	AZINE II		Code	11/11	Credit Type	English Electi	ve	SOL Test(s) Required
Grade Level		Prerequisite(s)	Creative V	Vriting / Literary	Magazine I			
Course Description Creative Writing/L course and will feat Journals, short sto by the end of the	iterary Mag ature self-d ries, and po semester. S	gazine I. The cours irected projects ar petry will be gathe	se builds up nd student-l red and dev red to subm	on and refines the discussions weloped into lengit work for public	ne skills and cond with a strong emp othier pieces sucl cations both witl	cepts developed phasis on the pro n as a novella, n nin and outside	d in the second	he introductory sional writer's craf pir, and scrapbool school. Creative

				MCPS		High School C	Credits	1	Graduation	
JOURNA	I ISM I			Course	12000	Weighted	1		Requirement	
				Code		Credit Type	English Electi	ν_	SOL Test(s)	
				Couc		Credit Type	Liigiisii Liecti	ve	Required	
Cua da Lass	_1	0.13	Duana	English gr	ade of "B" or high	er is strongly re	commended ar	d te	acher	
Grade Lev	eı	9-12	Prerequisite(s)	recomme	ndation is require	d.				
newspape	r articles / for pag	s, take phot	ourse, students wi ographs, sell adve nd digital photogra	ertisements	, and create page	layouts. Memb	ers of the class	will ı	use available	·se
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

			MCPS High School Credits				credits	1	Graduation
JOURNA	II MZII	l		Course	12100	Weighted			Requirement
JOURNA	LISIVI II	ļ					English Elective SOL 1		SOL Test(s)
				Code		Credit Type	Liigiisii Liecti	Required	
Grade Lev	⁄el	10-12	Prerequisite(s)	Journalism	1				
responsib	ilities. So	econd-year	staff members wi	•		•			d important
•	naking.	This is a pu	blications course.	It does not	satisfy the req	uired English cou	rse for each gra	ide.	<u>'</u>
decision n	naking. •	This is a pu	blications course.	It does not	satisfy the req	uired English cou	rse for each gra	de.	•
•	naking. •	This is a pu	blications course.	It does not	satisfy the req	uired English cou	rse for each gra	de.	
decision n	naking. •	This is a pu	blications course.	It does not	satisfy the req	uired English cou	rse for each gra	ide.	•

IOLIBNIA	I ICNA II	MCPS Course 12110		High School C Weighted	redits	1	Graduation Requirement		
JOURNALISM III				Course 1211 Code	12110	Credit Type	English Elective		SOL Test(s) Required
Grade Lev	⁄el	11-12	Prerequisite(s)	Journalism	II with teacher	recommendation	n is required.		
Course De	Tourse Description: In this course, students we esponsibilities. Third-year staff members will naking. This is a publications course. It does			II continue th	ne requirement	ts of Journalism II	and also fulfill I	leade	ershin roles and
responsib	ilities. T	hird-year st	aff members will l	be responsib	le for the overa	all production of t	:he newspaper a		•
responsib	ilities. T	hird-year st	aff members will l	be responsib	le for the overa	all production of t	:he newspaper a		•
responsib making. 1	ilities. T	hird-year st	aff members will l	be responsib	le for the overa	all production of t	:he newspaper a		•
responsib making. 1 AHS	ilities. T	hird-year st	aff members will l	be responsib	le for the overa	all production of t	:he newspaper a		•

					1	1			1	1
				MCPS		High School C	credits	1	Graduation	
DE JOUR	NALIS	ΜI		Course	DE1211	Weighted	T	✓	Requirement	
				Code		Credit Type	English Electi	ve	SOL Test(s) Required	
Dual Enrolled	✓	© N	EW RIVER	NRCC Course Code(s)	ENG 121 & ENG 122	College Credi	ts	6		
Grade Leve	el	11	Prerequisite(s)		nt test and English ecommendation i	_	higher is strong	gly re	ecommended;	
Course Des	criptio	n: This coເ	urse is based on th	e NRCC syll	abus for Introduct	tion to Journalis	m I & II. To mee	t NR	CC requirement	s,
			nts to all news med	-			•			
		-	blications course.		-	_	_			
_			portion of this co	urse with a	D or better in ord	der to advance t	to the ENG 122	port	ion of this cours	e.
	may c	arry with it	a fee to NRCC.							
AHS	•									
BHS CHS										
EMHS										
LIVIIIS										
						High School C	`rodits	1	Graduation	
				MCPS		Weighted	realts		Requirement	
DE JOUR	NALIS	MII		Course	DE1212				SOL Test(s)	
				Code		Credit Type	English Electi	ve	Required	
Dural			ELL Du (ED	NRCC	ENC 224 9				-	
Dual Enrolled	\checkmark		EW RIVER	Course	ENG 221 & ENG 222	College Credi	ts	6		
		201	, 0	Code(s)						
Grade Leve		12	Prerequisite(s)		vith teacher recon					
			urse is based on the							
			f all news media, e ations course. It d							
			on of this course w							ust
			a fee to NRCC.				port.			
AHS	,									
BHS										
CHS										
EMHS										
				MCPS		High School C	Credits	1	Graduation	
YEARBOO)K PR	ODLICTIO	N I	Course	12150	Weighted			Requirement	
TEARDO		obociio	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Code	12130	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Leve	el	9-12	Prerequisite(s)	Teacher r	ecommendation.					
Course Des	criptio	n: This coເ	ırse covers basic p	rinciples of	media ethics, gra	phic design, pag	ge design and la	yout	, photo cropping	5,
			-editing, and adve							on
	-		lents are required				•		_	
_			not satisfy the red	quired Engl	ish course for eac	th grade. This co	ourse may be u	sed t	to fulfill the fine	
arts requir										
AHS	•									
BHS	•									
CHS	•	1								

EMHS

•

V5 4 DD 04	01/ DD	2212		MCPS	10150	High School C Weighted	credits	1	Graduation Requirement	
YEARBO	YEARBOOK PRODUCTION II			Course Code	12160	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Level 10-12 Prerequisite(s)				Members teacher.	hip in grades 10-1	.2 and Media Ar	ts I with recomi	meno	dation by course	
photograp the school	Course Description: This course continues the photography. Students will take part in the course school yearbook. This is a publications of may be used to fulfill the fine arts requirement.				opment, headline	writing, picture	taking, article v	writir	ng and editing of	
AHS	•									
BHS	•							,		•
CHS	•		·		·		·			
EMHS	•									

VEADDOOK DRODUCTION III			MCPS		High School C Weighted	credits	1	Graduation Requirement
YEARBOOK PRO	ODUCTION III		Course Code	12170	Credit Type	English Electi	ve	SOL Test(s) Required
Grade Level	11-12	Prerequisite(s)	Membersh teacher.	Membership in grades 10-12 and Media Arts II with recomm eacher.				idation by course
Course Description publishing. Media yearbook. Editing publications cours	Arts III stu pages and	dents will take on teaching fundame	added respondant	onsibilities and a	ssist in each pha new staff memb	se of the produ ers will also be	ctior requ	of the school ired. This is a

 arts requirement.

 AHS
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 BHS
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 CHS
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 EMHS
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VEADDOON DD	ODUCTIO	NI 137	MCPS	12171	High School C Weighted	redits	1	Graduation Requirement
YEARBOOK PRODUCTION IV			Course Code	12171	Credit Type	English Electi	ve	SOL Test(s) Required
Grade Level	Grade Level 11-12 Prerequisite(s)		Membersh teacher.	nip in grades 10-	12 and Media Ar	ts III with recon	nmei	ndation by course

Course Description: Students in this course will fulfill leadership roles and responsibilities in the production of the school yearbook (editors, editors-in-chief, etc.) and will be responsible for the writing, rewriting, editing, and proofreading of the articles, picture taking, picture cropping, layout design, headlines, and captions. Legal and financial aspects will be taught as well as the responsibilities of the yearbook advisors. This is a publications course. It does not satisfy the required English course for each grade. This course may be used to fulfill the fine arts requirement.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

					High School C	redits	1	Graduation	
			MCPS		Weighted	reares	-	Requirement	
FREE SHA	AKESPE	EARE	Course Code	15181	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Leve	el	Prerequisite(s)	Teacher A	pproval	I	l			
allowing st plays their	udents own. It	n: This course expands theat to interact with the set of each allows multiple learning abilitistic expression.	ch play, crea	ate set pieces and	costumes, and	learn how to cu	ıt a s	cript to make the	
AHS	•	·							
BHS									
CHS	•								
EMHS									
FILM STU	JDY		MCPS Course	14460	High School C		1	Graduation Requirement	
	FILINI STODY				Credit Type	English or Fine Arts Elect	·ivo	SOL Test(s) Required	
Grade Leve	Grade Level Prerequisite(s)			l \pproval		Tille Alts Liect	ive	Required	
-	to the p	rent periods of history, styles public of today by studying re	_		_		_	_	
CHS	•								
EMHS									
			MCPS		High School C	Credits	1	Graduation	
		MENTALS	Course	13000	Weighted	1		Requirement	
(FORENS	ICS/DE	EBATE)	Code		Credit Type	English Electi	ve	SOL Test(s)	
Grada Lave	- I	Prerequisite(s)	Toachar A	nnroval		_		Required	
choosing w participation as a part of sessions wi for the cou takes place not satisfy	scription which aspon in, co f the cou ill be diverse is line	prerequisite(s) n: This course introduces to a pects of these activities they prompetitive activities. Student urse requirements. Labs will vided between debate and sp mited to one credit per year, e of regular school hours (sch	the rules an wish to pur is will be red be directed eech. It is pregardless deduled as a	id events for composure. The majority quired to participal by the teachers roossible for a study whether the study.	of class time wate in out of toversponsible for flent to participated.	vill be devoted to vn competitions forensic and dek ate in both labs of es in both labs of	o pre at the oate or or or on	eparation of, and heir own expense activities. The la ally one. The cred ally one. This cou	b lit rse
AHS BHS CHS EMHS			udent inter	ntly offered due t est, availability of ted in this course	f certified staff,	and/or current		ources.	

HISTORY / SOCIAL SCIENCES ELECTIVES

				High School C	redits	1	Graduation	
		MCPS Weighted			<u> </u>	Requirement		
PSYCHOLOGY		Course Code	29000	Credit Type	History / Social Science Elective	es	SOL Test(s) Required	
Grade Level	Prerequisite(s)							
Course Description psychology includi	•	• .				•	:	
• .	ological behavior, human deve	•	-				•	
	eam stages, intelligence, and			rrough examinat	ion of these top	ics, s	students gain an	ın-

•		,
AHS		
BHS		
CHS	•	
EMHS	•	

		VD.			High School C	redits	1	Graduation	
		A	MCPS		Weighted		✓	Requirement	
AP PSYCHOLO	OGY		Course Code	2902A	Credit Type	History / Social Science Elective	es	SOL Test(s) Required	
Grade Level	11-12	Prerequisite(s)							

Course Description: The content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program for the AP Psychology course. The course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, evaluate claims and evidence, and effectively communicate ideas. This survey course is an opportunity to investigate the field of psychology in greater depth than the psychology/sociology course offers. Students will concentrate on recent studies across many topics/subfields of psychology. Critical thinking skills and analysis will also be developed throughout work in the course.

AHS		
BHS	•	
CHS	•	
EMHS		

						High School C	redits	1	Graduation	
	DE PSYCHOLOGY			MCPS		Weighted		✓	Requirement	
DE PSYCHO				Course Code	DE2900	Credit Type	History / Social Science Elective	es	SOL Test(s) Required	
Dual Enrolled	~	NE Com	■ NEW RIVER Community College		PSY 200	College Credit	ts	3	TRANSFER VIRGINIA	/
Grade Level		11-12	Prerequisite(s)	See Below	*					

Course Description: This course is 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 9-10 and 195-197) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

AHS	
BHS	This course is offered only as DE/AP Psychology at BHS at this time.
CHS	This course is offered only as DE/AP Psychology at BHS at this time.
EMHS	

			VD.			High School Credits		1	Graduation		
DE/AP PSYCHOLOGY				MCPS Course Code	DE2900A	Weighted		✓	Requirement		
						Credit Type	History / Social Sciences Elective		SOL Test(s) Required		
Dual Enrolled	✓	■ NEW RIVER Community College		NRCC Course Code(s)	PSY 200	College Credits		3	TRANSFER VIRGINIA		
Grade Level 11-1		11-12	Prerequisite(s)	See Below	*	•					
Course Description: This course combines 2902A and DE2900											
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 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 9-10 and 195-197) 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.

					High School C	High School Credits			
			MCPS		Weighted			Requirement	
PSYCHOLOGY	PSYCHOLOGY/SOCIOLOGY		Course Code	29960	Credit Type	History / Social Science Elective	es	SOL Test(s) Required	
Grade Level	11-12	Prerequisite(s)							

Course Description:

Psychology (Taught for one semester) - This course explores the science of behavior and thinking of organisms. In general, the course deals with topics like human development, personality, learning theory, motivation, mental illness and group behavior. Areas of current interest such as drug abuse and stress are explored. In specific, the student is able to apply many learning situations to his/her everyday life.

Sociology (Taught for one semester) - This course deals with the concepts and principles necessary for the study of human relationships from the level of small group to mass behavior. In addition, students learn the terminology and scientific methodology of the discipline. Some special topics emphasized include the components and variations of culture and the ways individuals are socialized into their culture. A major unit on social institutions presents the institutions by which society functions: the family, education, religion, economy, and government. Causes and consequences of social problems in our society are considered along with causes of unplanned social change and strategies for implementing intentional change.

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AHS					
BHS	•				
CHS	•				
EMHS					

			MCPS Course Code	DE2996	High School Credits Weighted			Graduation Requirement	
DE PSYCHOLOGY/SOCIOLOGY		Credit Type			History / Social Scienc Elective	es	SOL Test(s) Required		
Dual Enrolled	✓	None Con Con	EW RIVER	NRCC Course Code(s)	PSY 200 & SOC 200	College Credits 6		TRANSFER VIRGINIA	
Grade Level		11-12	Prerequisite(s)	See Below	*	1			

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 9-10 and 195-197) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

PSYCHOLO	VIRTUAL DE PSYCHOLOGY / DE2996V Same as DE2996 except the course is offered virtually. SOCIOLOGY									
AHS	•									
BHS	•	Out the status of source to south the status								
CHS	•	Only the vir	Only the virtual course is available at this time.							
EMHS	•									

			MCPS	DE2905	High School Credits Weighted		1	Graduation Requirement	
DE PHILOSOPHY		Course Code	Credit Type		History / Social Science Elective	es	SOL Test(s) Required		
Dual Enrolled		EW RIVER	NRCC Course Code(s)	PHI 100	College Credi	ts	3		
Grade Level	11-12	Prerequisite(s)	s) NRCC Placement Exam						

Course Description: This course is based on NRCC syllabi for Introduction to Philosophy. To meet NRCC requirements, the course presents an introduction to philosophical problems and perspectives with emphasis on the systematic questioning of basic assumptions about meaning, knowledge, reality, and values. Students will be introduced to the major topics, problems, and methods of philosophy and survey the writings of a number of major historical figures in the field. This class includes an exploration of the fundamental questions in several of the core areas of philosophy, including metaphysics, epistemology, political philosophy, ethics, and the philosophy of religion.

AHS	
BHS	
CHS	
EMHS	

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

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

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 9-10 and 195-197) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

AHS		
BHS	•	
CHS		
EMHS		

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				High School C	redits	1	Graduation	
		MCPS		Weighted			Requirement	
APPALACHIAN HISTORY		Course 29970 Code		Credit Type	History / Social Science Elective	es	SOL Test(s) Required	
Grade Level	Prerequisite(s)							
lifestyles, and the a region. Basic to the	n: This course introduces the arts. A focus will be on local/ a course are focused reading compass among them geogration.	regional his and discus	tory to provide ar	n awareness and hia, including m	d appreciation for ultiple perspect	or th	e Appalachian on a variety of	25,
AHS BHS CHS EMHS	Not currently offered due to multiple factors, including historical student interest, availability of certified staff, and/or current resources. Students interested in this course should see their school counselor.							

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.							
WOMEN'S STUDIES					High School C	Credits	1	Graduation	
			MCPS		Weighted			Requirement	
			Course Code	29980	Credit Type	History / Social Science Elective	es	SOL Test(s) Required	
Grade Lev	⁄el		Prerequisite(s)						
multicultu across the movemen	iral pers world, its, gend	pectives. It with attent	rse is an introduct provides an overvi ion to differences al and historical co	iew of wome of gender, ra	n's experience ce, ethnicity, o	es and their activis class, sexuality, ar	sm to achieve ed nd nation. Topics	quali s inc	ty over time and ude women's rig
AHS									
BHS									
CHS	•					•			•

AFRICAN-AMERICAN HISTORY				High School C	redits	1	Graduation		
		MCPS		Weighted			Requirement		
		STORY	Course Code	29990	Credit Type	History / Social Scienc Elective	es	SOL Test(s) Required	
Grade Level		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	•	

MATHEMATICS ELECTIVES

			MCPS		High School C	redits	1	Graduation	
MATHEMATICS CAPSTONE GRADE 12			_	31360	Weighted			Requirement	
			Course Code	31300	Cradit Tura	Math		SOL Test(s)	
		Code		Credit Type	IVIatri		Required		
Grade Level	12	Prerequisite(s)) AFDA or Algebra II						

Course Description: This course contains high-interest contextualized content designed to give certain students an additional boost for competent and successful entry into college and careers. The course will add to students' preparation for college and the workplace by 1) enhancing skills in number and quantity, functions and algebra, geometry, and statistics and probability; and 2) simultaneously reinforcing readiness skills and dispositions in adaptability and flexibility, creativity and innovation, leadership, team work, collaboration, and work ethic. The mathematics capstone course is designed for high school seniors who have satisfactorily completed the required mathematics courses based on the Standards of Learning including Algebra, Functions, and Data Analysis or Algebra II; who have earned at least two verified credits in mathematics; and are intending to go to college, but may not be fully college-ready. For students who have successfully completed Algebra II, this course may serve as the fourth mathematics credit counting toward the Advanced Studies Diploma.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

TRIGONOMETE		MCPS	31500	High School Credits Weighted		1	Graduation Requirement		
ADVANCED ALGEBRA		Course Code	31300	Credit Type Math			SOL Test(s) Required		
Grade Level	10-12	Prerequisite(s)	Algebra II						

Course Description: This course extends Algebra II concepts with an emphasis on functions, theory of equations, graph theory, sequences and series, and conic sections. Trigonometric topics are introduced and fully developed to include triangular and circular definitions of the trigonometric functions, establishing identities, special angle formulas, Law of Sines, Law of Cosines, and solutions of trigonometric equations.

NOTE: This course content is designed to prepare students for DE PreCalculus with Trigonometry or a Calculus course. In order to enroll in DE PreCalculus or DE Calculus, students must meet all admission and course placement requirements established by NRCC (see pages 9-10 and 195-197) in addition to successful completion of prerequisite courses.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

		/		MCPS		High School C Weighted	High School Credits Weighted		Graduation Requirement	
DE PRECAL	PRECALCULUS W/TRIGONOMETRY Course DE31621 Credit Type Math				SOL Test(s) Required					
Dual Enrolled	✓	None Con Con	EW RIVER	NRCC Course Code(s)	MTH 167	College Credits 5		′		
Grade Level		11-12	Prerequisite(s)	Algebra II or Trigonometry/Advanced Algebra NOTE: A grade of C or higher in a prerequisite course is required OR Placement into MTH 161 or higher on VPT (Satisfaction of MTE 1-9) is required in addition successful completion of a prerequisite course *						

Course Description: This course is based on the NRCC syllabus for PreCalculus with Trigonometry. To meet NRCC requirements, the course presents topics in power, polynomial, rational, exponential, and logarithmic functions, systems of equations, trigonometry, and trigonometric applications, including Law of Sines and Cosines, as well as provides an introduction to conics. The general purpose of this one-semester course is to prepare students for the skills and level of rigor needed for successful study in a sequence of courses in calculus with analytic geometry.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses. Students in grades 9 and 10 also may qualify to take this course if they meet the established criteria for "Special Circumstances" (see <u>pages 201-202</u>). This course may carry with it a fee to NRCC.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

CALCULUS			MCPS Course Code	31995	High School Credits Weighted		1	Graduation Requirement
CALCULUS					Credit Type	Math		SOL Test(s) Required
Grade Level	11-12	Prerequisite(s)	Trigonometry/Advanced Algebra or DE PreCalculus with Trigonometry					

Course Description: This course provides students with a study of limits, continuity of functions, the derivative and its applications, and the definite integral and its applications. All topics will be investigated analytically, numerically, and graphically. Technology will be used as a tool to verify and investigate mathematical concepts and ideas.

Note: This course may be taken by students who are not eligible to take a dual enrolled Calculus course

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

DE APPLIED CALCULUS I				MCPS Course	DE31998	High School C Weighted	redits	1	Graduation Requirement	
DE APPLIED CALCULUS I		Code		Credit Type	Credit Type Math		SOL Test(s) Required			
Dual Enrolled	✓	■ NE Con	NRCC Course Community College Code(s) NRCC Course Code(s) College Credits		3	TRANSFER VIRGINIA	r			
Grade Level		11-12	Prerequisite(s)	DE PreCalculus w/Trigonometry (with a grade of C or higher) OR Placement into MTH 261 or higher on the VPT-Calculus in addition to successful completion of Trigonometry /Advanced Algebra *)		

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 <u>pages 9-10</u> and <u>195-197</u>) 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.

EMHS	•	Depending on sufficient student interest, availability of school-site resources, and staffing, it is also possible that both DE Applied Calculus I and DE Applied Calculus II may be offered each year or in alternating years.
CHS	•	Depending an sufficient student interest qualishility of school site resources, and staffing it is also nessible
BHS	•	school year).
AHS	•	DE Applied Calculus I and DE Applied Calculus II may be offered as stand-alone, year-long or semester courses OR as semester courses within the same school year (allowing students to complete both courses in one

DE APPLIED CALCULUS II			MCPS Course Code	DE31999	High School C Weighted Credit Type	redits Math	1	Graduation Requirement SOL Test(s) Required		
Dual Enrolled	✓	NE Com Co	EW RIVER	NRCC Course Code(s)	MTH 262	College Credit	ts	3		
Grade Level 11-12 Prerequisite(s)			DE Applied	d Calculus I (with a	a grade of C or I	nigher) *				

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 <u>pages 9-10</u> and <u>195-197</u>) 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	•	DE Applied Calculus I and DE Applied Calculus II may be offered as stand-alone, year-long or semester courses
BHS	•	OR as semester courses within the same school year (allowing students to complete both courses in one school year).
CHS	•	
EMHS	•	Depending on sufficient student interest, availability of school-site resources, and staffing, it is also possible that both DE Applied Calculus I and DE Applied Calculus II may be offered each year or in alternating years.

DE/AP CALCULUS I (AB)				MCPS	DE3177A	High School (Weighted	Credits	1	Graduation Requirement		
DE/AP CALCULUS I (AB)					Credit Type	e Math		SOL Test(s) Required			
Dual Enrolled	✓	NE Com Co	■ NEW RIVER Community College		MTH 263	College Credits 4			TRANSFER VIRGINIA	r	
Grade Level	Grade Level 11-12 Prerequisite(s)				DE PreCalculus w/Trigonometry (with a grade of C or higher) OR Placement into MTH 263 on the VPT-Calculus in addition to successful completion of Trigonometry /Advanced Algebra *						

Course Description: The content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program for the AP Calculus AB course and the NRCC syllabus for Calculus with Analytic Geometry I. The course is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The course covers topics in these areas, including concepts and skills of limits, derivatives, differentiation of various types of functions and use of differentiation rules, application of differentiation, antiderivatives, integrals and applications of integration, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to reinforce relationships among functions, to confirm written work, to implement experimentation, and to assist in interpreting results.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

AHS	•	DE DE/AP Calculus I (AB) and DE/AP Calculus II (BC) may be offered as stand-alone, year-long or semester
внѕ	•	courses <u>OR</u> as semester courses within the same school year (allowing students to complete both courses in one school year).
CHS	•	
EMHS	•	Depending on sufficient student interest, availability of school-site resources, and staffing, it is also possible that both DE DE/AP Calculus I (AB) and DE/AP Calculus II (BC) may be offered each year or in alternating years.

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.

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.

DE/AP CALCULUS II (BC)		AP.	MCPS Course DE3178 Code	DE2179A	High School Credits Weighted		1	Graduation Requirement		
				DL3176A	Credit Type	Math		SOL Test(s) Required		
Dual Enrolled	✓	NE Com Co	EW RIVER	NRCC Course Code(s)	MTH 264	College Credit	ts	4		
Grade Level 11-12 Prerequisite(s)				DE/AP Calculus I (AB) with a C or higher *						

Course Description: The content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program for the AP Calculus BC course and the NRCC syllabus for Calculus with Analytic Geometry II. The course is roughly equivalent to both first and second semester college calculus courses. It extends the content learned in AB/DE Calculus I to different types of equations (polar, parametric, vector-valued), develops additional integration techniques and applications, and introduces the topic of sequences and series. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to reinforce relationships among functions, to confirm written work, to implement experimentation, and to assist in interpreting results.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-10 and 195-197) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

AHS	•
BHS	•
CHS	•
EMHS	•

DE/AP Calculus I (AB) and DE/AP Calculus II (BC) may be offered as stand-alone, year-long or semester courses <u>OR</u> as semester courses within the same school year (allowing students to complete both courses in one school year).

Depending on sufficient student interest, availability of school-site resources, and staffing, it is also possible that both DE/AP Calculus I (AB) and DE/AP Calculus II (BC) may be offered each year or in alternating years.

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.

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.

COMPUTED CO		MCPS	22000	High School Credits Weighted		1	Graduation Requirement		
COMPUTER SCIENCE		Course 3	32000	Credit Type	Math Elective	•	SOL Test(s) Required		
Grade Level	9-12	Prerequisite(s)	Algebra I						
Course Descriptio decision making, I				nguage is used	to write program	is to solve prob	lems	. Topics include	
AHS			Nat accurace	le offered des	to more limbo for also	un in alvelia			
BHS	Not currently offered due to multiple factors, including								
CHS			rudent interest, availability of certified staff, and/or current resources.						
EMHS		Students interested in this course should see their school counselor.							

			MCPS		High School Credits		1	Graduation	
AP COMPUTER SCIENCE			Course	3186A	Weighted		✓	Requirement	
PRINCIPLES		Code		Credit Type	Elective		SOL Test(s) Required		
Grade Level	9-12	Prerequisite(s)	functions require m (x,y) coor students course bu	I completion of Algand composition of algand composition of all tipe approached dinate system to reand their advisers wilds upon a found applied through	of functions, and sand collabora epresents point understand that the ation of mather	d problem solvi tive efforts. Abil ts in a plane. It i at any significant matical and com	ng st lity t s im _l t con	trategies that o use a Cartesian portant that nputer science	

Course Description: The content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program for the AP Computer Science Principles course. The course is designed to be equivalent to a first- semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course engages students in the creative aspects of the field by allowing them to develop computational artifacts based on their interests. Students will also develop effective communication and collaboration skills by working individually and collaboratively to solve problems, and will discuss and write about the impacts these solutions could have on their community, society, and the world. This course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. This course is intended for a broader audience than the math-intensive AP Computer Science A course. This course does NOT provide a Math credit.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	Offered in alternating year with Probability and AP Statistics (Next offering: 2023-2024)

A D COMPLITED	AP ¹	MCPS	24.05.4	High School Credits Weighted			Graduation Requirement		
AP COMPUTER SCIENCE A			Course 3185A - Code	Credit Type	Math		SOL Test(s) Required		
Grade Level	10-12	Prerequisite(s)	Knowledge of basic English and algebra. Comfortable with functions and concepts found in the uses of function notation. It is important that stu						ıd

Course Description: The content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program for the AP Computer Science A course. The course is equivalent to a first-semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science A course curriculum is compatible with many CS1 courses in colleges and universities.

AHS		
BHS	•	
CHS		
EMHS	•	

PROBABILITY & STATISTICS		MCPS Course Code 31900	21000	High School C Weighted	redits	1	Graduation Requirement			
			31900	Credit Type	Math		SOL Test(s) Required			
Grade Lev	Grade Level 10-12 Prerequisite(s) AFDA or Algebra II								•	
	l), linear	regression	rse is an introduct and random samp		·	• •		•		ors
AHS	•									
BHS	•									
CHS	•									
EMHS										
	•						·	·		

AP STATISTICS		AP ¹	MCPS	24024	High School Co Weighted	redits	1	Graduation Requirement
AP STATISTICS			Course Code	3192A	Credit Type	Math So		SOL Test(s) Required
Grade Level	9-12	Prerequisite(s)	Algebra II					
Course Description Program for the Al in statistics. The co- from data. There a and statistical infe- understanding.	Statistics ourse intro re four the	course. The cours duces students to mes in the AP Sta	e is equivale the major co tistics course	nt to a one-sent ncepts and too exploring dat	mester, introductools for collecting, a ca, sampling and ex	ory, non-calcult nalyzing, and c operimentation	us-ba drawi n, ant	ised college cours ing conclusions ticipating patterns

AHS	•	
BHS	•	
CHS	•	
EMHS	•	Offered in alternating year with AP Computer Science Principles (Next offering: 2022-23)

			MCPS	DE2402	High School Credits Weighted		1	Graduation Requirement		
DE STATISTICS		Course Code	DE3192	Credit Type	Math		SOL Test(s) Required			
Dual Enrolled	V	SEW RIVER Course Code(s) NRCC Course MTH 245 & College Credits		6						
Grade Level 11-12 Prerequisite(s)					245, completion og For MTH 246, col					

Course Description: This course is based on NRCC syllabi for Statistics I and Statistics II. To meet NRCC requirements, this course presents an overview of statistics, including descriptive statistics, elementary probability, probability distributions, estimation, hypothesis testing, correlation, and linear regression (Statistics I), and presents an overview of statistics, including descriptive statistics, elementary probability, probability distributions, estimation, hypothesis testing, correlation, and linear regression (Statistics II). **Note:** NRCC will not be award or both MTH 245 and MTH 155 (Statistical Reasoning).

AHS	
BHS	
CHS	
FMHS	

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

SCIENCE ELECTIVES

Grade Level

				MCPS	High School C	Credits	1	Graduation		
EARTH S	CIENCE	E II		Course	42200	Weighted			Requirement	
METEOR	ROLOGY	1		Code	42200	Credit Type	Earth Scienc	^	SOL Test(s)	
				Code		Credit Type	Lai tii Scienc	E	Required	
Grade Lev	Grade Level Prerequisite(s)			Earth Scie	ence I					
Course De	scriptio	n: This cou	rse explores earth	systems so	ience through me	teorology, the	study of the atm	osp	here. Topics	
include th	e moven	nent of air i	masses, global clin	nate change	es, the effects of a	air pollution, and	d weather-relate	ed p	henomenon. An	
understan	ding of o	convection	currents, pressure	changes, a	and cloud develop	ment will be ap	plied through th	ne st	udy of weather	
forecastin	g.									
AHS										
BHS										
CHS	•									
EMHS										
						High School Credits		1	Graduation	
EARTH S	CIENCE	E II		MCPS	42500	Weighted			Requirement	
OCEANO	OCEANOGRAPHY		Course 42500 Code		Credit Type Earth Science		e	SOL Test(s) Required		

Course Description: This course explores the physical and biological processes in Earth's oceans including geography, geology. Topics that will be studied include History of Oceanography, Navigation, Hydrologic Cycle, Plate Tectonics, Sea Floor (Bathymetry), Chemistry of Sea Water, Atmosphere and the Oceans, Ocean Currents, Waves and Tides, Life in the Water, Life on the Seafloor, Ocean Production and Nutrient Cycling, Coasts, Estuaries and Environmental Issues. GIS (Geographic Information Systems) activities will be incorporated to study these topics, whenever possible.

Prerequisite(s) Earth Science I

AHS	•	
BHS	•	
CHS	•	
EMHS		

EARTH SCIENCE II		MCPS High School Credits	redits	1	Graduation Requirement			
	ASTRONOMY		Course 42600 Weighted Credit Type	Earth Scienc	e	SOL Test(s) Required		
Grade Lev	⁄el	Prerequisite(s)	Earth Science I and Algebra I					1104400
Course De	escriptio	n: This course is the study of				l include the life	cvc	les of stars.
cosmolog	ical theo	n: This course is the study of ries, our solar system, and recharts, spectra, and parallax.	our universe cent discove	e. Topics that v	will be studied wil ry investigations v	vill include topi	cs su	ch as stellar
cosmolog classificat	ical theo	ries, our solar system, and red	our universe cent discove	e. Topics that v	will be studied wil ry investigations v	vill include topi	cs su	ch as stellar
cosmolog classificat	ical theo	ries, our solar system, and red	our universe cent discove	e. Topics that v	will be studied wil ry investigations v	vill include topi	cs su	ch as stellar
cosmolog classificat AHS	ical theo	ries, our solar system, and red	our universe cent discove	e. Topics that v	will be studied wil ry investigations v	vill include topi	cs su	ch as stellar

ENVIRONMENTAL SCIENCE		MCPS		High School Credits Weighted		1	Graduation		
							Requirement		
		Course Code	42700	Credit Type	Science (Earth Science or Biology)		SOL Test(s) Required		
Grade Level	9-12	Prerequisite(s)							

Course Description: This course integrates the study of many components of our environment, including the human impact on our planet. These outcomes focus on scientific inquiry, the physical world, the living environment, resource conservation, humans' impact on the environment, and legal and civic responsibility. Students will focus on data collection and analysis through laboratory experiences and field work that include descriptive and comparative studies as well as investigation (i.e. meaningful watershed educational experiences). Students will be provided with opportunities to engage the community, as well as be exposed to diverse points of view about the management of natural resources, and a variety of learning experiences and career education opportunities.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

AD ENVIDONMENTAL SCIENCE			MCPS Course 4270A		High School Credits Weighted		2	Graduation Requirement	
AP ENVIRONNI	AP ENVIRONMENTAL SCIENCE			4270A	Credit Type	Science (Earth Scienc	e)	SOL Test(s) Required	
Grade Level	10-12	Prerequisite(s)	Algebra I, Earth Science, Biology I, and Chemistry I (Chemistry may concurrently with AP Environmental Science)					nay be taken	

Course Description: The content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program for the AP Environmental Science course. The course is designed to be the equivalent of a one-semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental Science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. This course will include as many labs/field investigations as possible.

AHS		
BHS	•	
CHS	•	
EMHS		

		MCPS		High School C	redits	1	Graduation	
BIOLOGY II		Course	43200	Weighted			Requirement	
BOTANY/ZOOL	BOTANY/ZOOLOGY		43200	Cradit Tura	Science		SOL Test(s)	
		Code		Credit Type	(Biology)		Required	
Grade Level	Prerequisite(s)	Biology I						•

Course Description: This course is intended to provide depth and breadth in the biological field. It provides a comparative study of structure and function of living organisms and the means by which they carry out vital life functions. Consideration is given to dilemmas that confront our age, the need for critical thinking and means by which one may gain factual knowledge. Laboratory experience is provided. Topics may include botany, zoology, anatomy and physiology.

AHS	•	
BHS	•	
CHS	•	
EMHS		

BIOLOGY II			MCPS	Weighted		redits	1	Graduation Requirement	
ANATOMY/PHYSIOLOGY		Course 43300 Credit	Credit Type	Science (Biology)		SOL Test(s) Required			
Grade Leve	el	Prerequisite(s)	Biology I						
Emphasis v	vill be p	 n: This course is designed for laced on the structure and fu erial and viral infections affections 	nction of th	ne major body sys	tems. Cytology	and histology o		•	
AHS	•								
BHS									
CHS	•								
EMHS									

DE HUMAN ANATOMY / PHYSIOLOGY		MCPS Course DE4330 Code	DE4220	High School Credits Weighted		2	Graduation Requirement			
			DE4550	Credit Type	Science (Biology)		SOL Test(s) Required			
Dual Enrolled	<	NE Com	EW RIVER	NRCC Course Code(s)	BIO 141 & BIO 142	College Credits		8		
Grade Level	ade Level 11-12 Prerequisite(s) DE Biology I and Chemistry I (ca			(can be a co-re	quisite) *					

Course Description: This course is based on NRCC syllabus for Human Anatomy and Physiology I & II. To meet NRCC requirements, the BIO 141 portion of the course presents the study of anatomy & physiology including anatomical terminology, homeostasis, histology, integumentary system, skeletal system, muscular system, and nervous system. The BIO 142 portion of the course continues study of anatomy and physiology including endocrine system, blood and cardiovascular system, lymphatic system and immunity, respiratory system, urinary system, fluid, electrolyte, and acid-base balance, digestive system and nutrient metabolism, reproductive system, and prenatal development. Assignments require college-level reading fluency, coherent written communication, and basic mathematical skills. Students must complete the BIO 141 portion of this course with a C or better in order to advance to the BIO 142 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 <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses. The prerequisite requirement from NRCC for this course may be met by any one of the following options:
 - Successful completion of BIO 101 (DE4700) with a final grade of C or better, OR
 - Score a 70% or higher on NRCC's NAS 2 "Challenge Exam", OR
 - Earn an AP Biology exam score of 3 or higher

This course may carry with it a fee to NRCC.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	Offered in alternating year with DE Biology (Next offering: 2023-24)

DE BIOTECHNOLOGY		MCPS	DE43201	High School Credits Weighted		1	Graduation Requirement			
DE BIOTECHNOLOGY			Course DE4320	DL43201	Credit Type Science (Biology)			SOL Test(s) Required		
Dual Enrolled	√	NE Com Co	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 pages 9-10 and 195-197) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

AHS		
BHS		
CHS	•	
EMHS		

BIOLOGY II		MCDC	42204	High School Credits			Graduation		
		MCPS		Weighted			Requirement		
BIOTECHNOLOG	BIOTECHNOLOGY		Course Code	43201	Cuadit Tuna	Science		SOL Test(s)	
					Credit Type	(Biology)		Required	
Grade Level		Prerequisite(s)							

Course Description: This course is offered as an advanced biology course, focusing on how the products of living organisms (DNA sequences or protein) are modified to make new products. Biotechnology requires a basis in both biology and chemistry and would provide an engaging, relevant experience for students while also teaching the fundamentals of basic laboratory skills that could serve our students well in many fields.

AHS	
BHS	
CHS	
FMHS	

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

BIOLOGY II ECOLOGY		MCPS		High School Credits Weighted		1	Graduation	
		_	42.400				Requirement	
		Course Code	43400	Consulta Tours	Science		SOL Test(s)	
		Code		Credit Type	(Biology)		Required	1
Grade Level	Prerequisite(s)	Biology I						

Course Description: This course provides a study of the complex relationships between the abiotic (non-living) and the biotic organisms, which constitute the different environments on Earth and the effects that humans have on the ecosystems. This course is a more in-depth study of the relationship between the interactions of the living and non-living components of the Earth. It's designed for the student to gain more practical field applications of ecology. This is a field course and labs and field trips are an integral component of the course.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

Graduation

		MCPS		High School C	redits	1	Graduation			
BIOLOGY	'			Course	43500	Weighted			Requirement	
GENETIC	S			Code	43300	Cradit Tuna	Science		SOL Test(s)	
				Coue		Credit Type	(Biology)		Required	
Grade Leve			Prerequisite(s)	Biology I						
			rse explores curren							
			ty through legal, e							
			ecially in regard to							g
			sets and their appl					or pr	oduction and	
analysis of	genetic	informatio	n. This course intro	oduces cybe	rinfrastructure to	ools, concepts ar	nd techniques.			
AHS		_	No.	nt currentl	y offered due to	 n multinle fact	ors including			
BHS			historical stude					nt re	ecources	
CHS					, availability of d in this course					
EMHS			Students	Interested	In this course	snouia see tiie	Ir school court	seio	r.	
				* 4 CDC		High School C	redits	1	Graduation	
BIOLOGY II BIOETHICS			MCPS	42202	Weighted			Requirement		
		Course	43202			-				
DIOLITIN	CS				10202	Consults Toma	Science	İ	SOL Test(s)	
BIOETHIC	CS			Code	13232	Credit Type	Science (Biology)		SOL Test(s) Required	
Grade Leve			Prerequisite(s)			Credit Type				
Grade Leve	el	1: In this co	Prerequisite(s)	Code Biology I			(Biology)	that	Required	
Grade Leve	el scriptior		-	Code Biology I Il explore co	ontemporary topi	ics in Biology and	(Biology)		Required trequire ethical	
Grade Leve Course Des examination	el scriptior on. Vario	ous topics s	ourse, students wil	Code Biology I Il explore cogineering, st	ontemporary topi em cell research,	ics in Biology and	(Biology)		Required trequire ethical	
Grade Leve Course Des examination	el scriptior on. Vario	ous topics s	ourse, students wil uch as genetic eng	Code Biology I Il explore cogineering, st	ontemporary topi em cell research,	ics in Biology and	(Biology)		Required trequire ethical	
Grade Leve Course Des examination reproduction AHS	el scriptior on. Vario	ous topics s	ourse, students wil uch as genetic eng	Code Biology I Il explore cogineering, st	ontemporary topi em cell research,	ics in Biology and	(Biology)		Required trequire ethical	
Course Deservation reproductive AHS	el scriptior on. Vario	ous topics s	ourse, students wil uch as genetic eng	Code Biology I Il explore cogineering, st	ontemporary topi em cell research,	ics in Biology and	(Biology)		Required trequire ethical	
Course Desermination reproduction AHS BHS CHS	el scription on. Vario ve techn	ous topics s	ourse, students wil uch as genetic eng	Code Biology I Il explore cogineering, st	ontemporary topi em cell research,	ics in Biology and	(Biology)		Required trequire ethical	
Course Deservation reproductive AHS	el scription on. Vario ve techn	ous topics s	ourse, students wil uch as genetic eng	Code Biology I Il explore cogineering, st	ontemporary topi em cell research,	ics in Biology and	(Biology)		Required trequire ethical	
Course Desermination reproduction AHS BHS CHS	el scription on. Vario ve techn	ous topics s	ourse, students wil uch as genetic eng	Code Biology I Il explore cogineering, st	ontemporary topi em cell research,	ics in Biology and	(Biology)		Required trequire ethical	
Course Desermination reproduction AHS BHS CHS	el scription on. Vario ve techn	ous topics s	ourse, students wil uch as genetic eng	Code Biology I Il explore cogineering, st	ontemporary topi em cell research,	ics in Biology and genetic testing	(Biology) d Biotechnology and profiling, ge	ene t	Required t require ethical herapy,	
Course Desermination reproduction AHS BHS CHS	el scription on. Vario ve techn	ous topics s	ourse, students wil uch as genetic eng	Code Biology I Il explore cogineering, st	ontemporary topi em cell research,	ics in Biology and genetic testing	(Biology) d Biotechnology and profiling, ge	ene t	Required t require ethical herapy, Graduation	
Course Desermination reproduction AHS BHS CHS EMHS	el scription on. Vario ve techn	ous topics s	ourse, students wil uch as genetic eng	Biology I II explore cogineering, st s will be dis	ontemporary topi em cell research,	ics in Biology and genetic testing	(Biology) d Biotechnology and profiling, ge	ene t	Required require ethical herapy, Graduation Requirement	
Course Desermination reproduction AHS BHS CHS	el scription on. Vario ve techn	ous topics s	ourse, students wil uch as genetic eng	Code Biology I Il explore cogineering, st s will be dis	ontemporary topi em cell research, cussed.	ics in Biology and genetic testing High School C Weighted	(Biology) d Biotechnology and profiling, ge	ene t	Required t require ethical therapy, Graduation Requirement SOL Test(s)	
Course Desermination reproduction AHS BHS CHS EMHS	el scription on. Vario ve techn	ous topics si nologies, an	ourse, students will uch as genetic engod end of life issues	Biology I II explore cogineering, st s will be dis MCPS Course Code	ontemporary topi em cell research, cussed. 4370A	High School C Weighted Credit Type	(Biology) d Biotechnology and profiling, ge	2	Graduation Requirement SOL Test(s) Required	
Course Desermination reproductive AHS BHS CHS EMHS AP BIOLO Grade Leve	scription on. Vario ve techn • DGY	ous topics so nologies, an	ourse, students will uch as genetic engod end of life issues the control of the c	Biology I II explore cogineering, st s will be dis MCPS Course Code Biology I a	ontemporary topi em cell research, cussed. 4370A	High School C Weighted Credit Type Chemistry may be	(Biology) d Biotechnology and profiling, ge redits Science (Biology) e taken concurr	2 ✓	Graduation Requirement SOL Test(s) Required y with AP Biology	
Grade Level Course Desermination reproductive AHS BHS CHS EMHS AP BIOLO Grade Level Course Desermination	el scription on. Vario ve techn • OGY el scription	nologies, and 10-12 10-12	Prerequisite(s)	MCPS Course Code Biology I	ontemporary topi em cell research, cussed. 4370A and Chemistry I (Cose corresponds to	High School C Weighted Credit Type Chemistry may be the syllabus of	(Biology) d Biotechnology and profiling, ge redits Science (Biology) e taken concurr the College Boa	2 v	Graduation Requirement SOL Test(s) Required y with AP Biology	
Grade Level examination reproduction AHS BHS CHS EMHS AP BIOLO Grade Level Course Desprogram for	el scription ve techn OGY el scription or the AF	10-12 The cont Biology co	ourse, students will uch as genetic engod end of life issues the control of the c	MCPS Course Code Biology I II explore cogneering, st s will be dis	4370A and Chemistry I (Cose corresponds to uctory college-le	High School C Weighted Credit Type Chemistry may book the syllabus of evel biology course	(Biology) d Biotechnology and profiling, ge redits Science (Biology) e taken concurr the College Boa se. Students cult	2 Vently	Graduation Requirement SOL Test(s) Required y with AP Biology dvanced Placeme e their	ent

energy and communication, genetics, information transfer, ecology, and interactions. Required hands-on laboratory work will

emphasize inquiry based investigations that provide students with opportunities to apply the science practices.

AHS **BHS** CHS **EMHS** **High School Credits**

DE BIOLOGY			MCPS Course DE4700 Code	DE 4700	High School Credits Weighted		2	Graduation Requirement		
				DL4700	Credit Type Science (Biology)			SOL Test(s) Required		
Dual Enrolled	✓	NE Com	EW RIVER	NRCC Course Code(s)	BIO 101 & BIO 102	College Credits		8	TRANSFER VIRGINIA	′
Grade Level Prerequisite(s)				Biology I and Chemistry I (Chemistry may be taken concurrently with DE Biology) *						

Course Description: This course is 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; 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 <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

		,
AHS	•	May be offered at AHS based on sufficient student interest/demand and the availability of qualified staff.
BHS	•	May be offered at BHS based on sufficient student interest/demand and the availability of qualified staff.
CHS	•	
EMHS	•	Offered in alternating year with DE Human Anatomy/Physiology (Next offering: 2022-23)

CHEMISTRY I		MCPS Course Code	44400	High School Credits Weighted			Graduation Requirement	
			44100	Credit Type	Science (Chemistry)		SOL Test(s) Required	✓
Grade Level	Prerequisite(s)	Math cou	rses through Alge	bra II or taking A	Algebra II concu	rren	tly.	
physical and chem	 n: This course involves a studical properties of matter. To s, Thermodynamics and the 	pics include	atomic structure	e, bonding, the P	eriodic Table, cl	hemi	ical composition,	

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 the basic laws of chemistry.

This course incorporates the Chemistry I curriculum and is designed for students who have

CHEMISTR HONORS	ΥI	4410H	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	•	The hono	rs-level course is not offered at CHS.
EMHS	•	The hono	rs-level course is not offered at EMHS.

				High School Credits		1	Graduation	
CHEMISTRY II		MCPS Course	44200	Weighted			Requirement	
			44200	Cradit Type	Science		SOL Test(s)	
		Code Credit Type		Required				
Grade Level	Prerequisite(s)	Chemistry	I and math cours	es through Alge	bra II			
Laboratory experi	 n: This course is intended to ences are provided for all are structure, organic chemistry, principle. 	as, with em	phasis on qualitat	ive and quantit	ative technique	s. Sp	pecial areas of fo	cus
AHS BHS	historical st	Not currer	ntly offered due t	o multiple facto	rs, including			

AP CHEMISTRY		AP ²	MCPS Course	4470A	High School Credits Weighted		2	Graduation Requirement	
			Code		Credit Type	Science		SOL Test(s)	
		Code		create type	(Chemistry)	Required			
Grade Level	Prerequisite(s)	Successfu	l completion of Al	gebra II & Chem	nistry I.				

Course Description: The content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program for the AP Chemistry course. The course provides students with a college-level foundation to support future advanced course work in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. This course includes a minimum of 16 hands-on laboratory investigations (at least six of which are inquiry based).

AHS	•	
BHS		This course is offered only as DE/AP Chemistry at BHS at this time.
CHS		This course is offered only as DE/AP Chemistry at CHS at this time.
EMHS		

DE CHEMISTRY			MCPS	DE4410	High School Credits Weighted		2	Graduation Requirement	
DE CHEMISTRY		Course DE4410	DE4410	Credit Type Science (Chemistry))	SOL Test(s) Required		
Dual Enrolled	✓	NE Com	EW RIVER	NRCC Course Code(s)	CHM 111 & CHM 112	College Credit	s	8	TRANSPER VIRGINIA
Grade Level Prerequisite(s)			Successfu	l completion of Al	gebra II & Chem	istry I *	•	•	

Course Description: This course is 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 <u>pages 9-10</u> and <u>195-197</u>) 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

AHS	
BHS	This course is offered only as DE/AP Chemistry at BHS at this time.
CHS	This course is offered only as DE/AP Chemistry at CHS at this time.
EMHS	

DE/AP CHEMISTRY Co Ci Dual Enrolled Divided Sommunity College		MCPS	MCPS Course DE4470A		High School Credits Weighted		Graduation Requirement	✓		
		Code DE4470A	Credit Type	Science (Chemistry)		SOL Test(s) Required				
		NRCC Course Code(s)	CHM 111 & CHM 112	College Credit	ts	6	TRANSFER VIRGINIA			
Grade Level			Prerequisite(s)	Successfu	l completion of Al	gebra II & Chen	nistry I *			

Course Description: This course combines 4470A/L and DE4410.

AHS		
BHS	•	
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 9-10</u> and <u>195-197</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 Credits Weighted			Graduation Requirement	
PHYSICS I		Course Code	45100	Credit Type	Science (Physics)		SOL Test(s) Required	
Grade Level	Prerequisite(s)	Successfu	I completion of Al	gebra II.				

Course Description: This course covers some of the introductory ideals in classical physics. Because of an emphasis in problem solving and using math to illustrate the concepts, math skills are particularly important. Specifically, the physics topics covered are as follows: motion of objects, collisions of objects, forces of nature, sound and light waves, basic optics, electrical circuits, thermodynamics, and modern physics. The laboratory aspect of class is heavily detail and discovery oriented.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

DE PHYSICS			MCPS	DE4510	High School Credits Weighted		2	Graduation Requirement		
DE PHYSICS		Course DE4510 Code	Credit Type	Science (Physics)		SOL Test(s) Required				
Dual Enrolled	✓	NE Com Co	EW RIVER	NRCC Course Code(s)	PHY 201 & PHY 202	College Credit	s	8		
Grade Level Prerequisite(s)			Calculus	or taking Calculus	concurrently *					

Course Description: This course is 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 9-10 and 195-197) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

AHS	
BHS	
CHS	•
EMHS	

This course is offered only as DE/AP Physics at AHS & CHS at this time.

AP PHYSICS C: MECHANICS, ELECTRICITY & MAGNETISM



MCPS Course Code

4571A

High School Credits				
Weighted		✓		
Credit Type	Science (Physics) Science Elective			
Credit Type	Science Electiv	/e		

Graduation Requirement SOL Test(s) Required

Grade Level

Prerequisite(s)

Calculus or taking Calculus concurrently

AP 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.

AHS		
BHS	•	
CHS		
EMHS		

DE/AP PHYSICS		A P	MCPS Course	DE4571A	High School C Weighted	redits	2	Graduation Requirement	
			Code	DL43/1A	Credit Type	Science		SOL Test(s)	
			-		credit Type	(Physics)		Required	
Dual Enrolled	>	■ NEW RIVER Community College	NRCC Course Code(s)	PHY 201 & PHY 202	College Credit	s	8		
Grade Level Prerequisite(s)			Calculus	or taking Calculus	concurrently *		·		

Course Description: This course combines 4571A and DE4510.

AHS	•	
BHS		
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 9-10</u> and <u>195-197</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.

		overnor's STEA	MCPS		High School C	redits	1	Graduation	
PRINCIPLES OF				00440	Weighted			Requirement	
TECHNOLOGY I		Z. O. Nanulindia	Course Code	98110	Credit Type	CTE Elective	<u>;</u>	SOL Test(s) Required	
Grade Level	10-12	Prerequisite(s)	Algebra I						

Course Description: This course applies physics and mathematics concepts through a unified systems approach to develop a broad knowledge of the principles of underlying modern technical systems. Students study seven technical principles and how each plays an underlying role in the operation of mechanical, fluid, electrical, and thermal systems in technical equipment.

Students who complete Principles of Technology I and Principles of Technology II may use these courses to satisfy one Physics credit and one CTE elective credit (98110 and 98120 constitute a CTE completer sequence). A student must complete both courses in the sequence in order to receive laboratory science (Physics) credit.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

PRINCIPLES OF TECHNOLOGY II / APPLIED PHYSICS		MCPS		High School C	redits	1	Graduation	
		Course	98120	Weighted			Requirement	
		Code	90120	Cuadit Tuna	Science		SOL Test(s)	
		Code		Credit Type	(Physics)		Required	1
Grade Level	Prerequisite(s)	Principles of Technology I, Algebra I, and one other laboratory science course.						

Course Description: This course focuses on seven technical principles: momentum, waves, energy converters, transducers, radiation, optical systems, and time constants, emphasizing how each principle plays a unifying role in the operation of mechanical, fluid, electrical, and thermal systems in high-technology equipment. This "principles and systems" approach to studying these technical principles provides a foundation for further education and career flexibility as technology and technical systems advance. Students who complete Principles of Technology I and Principles of Technology II may use these courses to satisfy one Physics credit and one CTE elective credit (98110 and 98120 constitute a CTE completer sequence). A student must complete both courses in the sequence in order to receive laboratory science (Physics) credit.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

VIRGINIA SPACE COAST SCHOLARS (VSCS) VIRTUAL		MCPS Course	4703V	High School C Weighted	redits	1	Graduation Requirement		
		Code	4703	Credit Type			SOL Test(s) Required		
Grade Level	10	Prerequisite(s)			•				

Course Description: The Virginia Space Coast Scholars (VSCS) is a program for High School Sophomores focusing on the science, engineering, and technology integral to current missions at NASA Wallops Flight Facility and the Mid-Atlantic Regional Spaceport. This dynamic (and FREE) program, designed by the Virginia Space Grant Consortium (VSGC), inspires students who possess technical and/or scientific interests and are motivated to learn about the many different opportunities that NASA offers. The program features two key elements. The first is a dynamic on-line science, technology, engineering, and mathematics (STEM) learning experience featuring five modules. Upon completion of the online program, top performing scholars may be invited to attend a seven-day residential Summer Academy at NASA Wallops Flight Facility on Wallops Island, VA, where scholars will learn first-hand from NASA professionals and their partners about the latest, cutting edge technologies and missions. http://vsgc.odu.edu/spacecoast/ This course is only offered virtually.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

VIRGINIA AEROSPACE SCIENCE &		MCPS		High School Cr	edits 1	Graduation		
		_	DE4701V	Weighted	✓	Requirement		
	TECHNOLOGY SCHOLARS PROGRAM		Code			Cuadit Tuna		
(VASTS) VIRTUAL		Code		Credit Type		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	•			
CHS	•			
EMHS	•			

VIRGINIA EARTH SYSTEM SCIENCE SCHOLARS PROGRAM (VESSS)			MCPS Course	DE4702V	High School Credits Weighted		Graduation Requirement	
VIRTUAL	OGRAIVI (VESSSJ	Code	DE4702V	Credit Type		SOL Test(s) Required	
Grade Level	11-12	Prerequisite(s)						

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	•	

FINE ARTS ELECTIVES

		MCPS		High School C	redits	1	Graduation			
ART FOU	NDATI	ONS I		Course	91200	Weighted			Requirement	
				Code		Credit Type	Fine Arts	Fine Arts		
Grade Leve	el	9-12	Prerequisite(s)							
this course will be inst	, the sturuction	ıdent will e in drawing,	rse is designed as xplore art as it rela , painting, ceramic I with an emphasis	ates to histo s, printmak	ory, to the enviro	nment and to hi e using a variety	s/her own perso of both 2-D and	onal d 3-E	experiences. Th O media. Art style	ere
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

			MCPS		High School Credits			Graduation	
ART II INTERMEDIATE			Course	91300	Weighted			Requirement	
			Code		Credit Type	Credit Type Fine Arts			
Grade Level	9-12	Prerequisite(s)	Art I (Students who have had an art class prior to high school may take a placement test and present a portfolio to possibly qualify for a higher level class)						

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.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

ART III ADVANCED INTERMEDIATE			MCPS	MCPS Course 91400	High School Credits			Graduation	
			Course		Weighted			Requirement	
			Code		Credit Type	Fine Arts			
Grade Level	10-12	Prerequisite(s)	Art II						

Course Description: Advanced Art is a course that follows successful completion of two (2) years of art foundations. (The instructor may make exceptions for students who have completed just 1 year and show both interest and talent.) Advanced students are allowed more time for pursuing individual projects and exploration of media and techniques. A more intense study of art history and visual problem solving will be made.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

ART IV ADVANCED		MCPS Course 91450		High School C Weighted	redits	1	Graduation Requirement		
		Code		Credit Type	Fine Arts				
Grade Leve	el	11-12	Prerequisite(s)	Portfolio I	tfolio Review				
	-		rse involves intens ependent researcl		_	nced skills in thei	r chosen media	. Ad	vanced critiques,
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

ART V PORTFOLIO PREPARATION		101013		High School Credits Weighted		1	Graduation Requirement			
		Code		Credit Type	Fine Arts					
Grade Leve	el	12	12 Prerequisite(s) Portfolio Review or Teacher Recommendation							
will further	Course Description: Having achieved training in basic knowledge and experience of two and/or three dimensional media, students will further develop higher level skills in art production esthetics and criticism. Students will join instructor in determining goals and expectations for projects and follow the normal exam procedures.									
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

			MCPS		High School C	redits	1	Graduation	
PAINTIN	PAINTING		Course	91401	Weighted			Requirement	
			Code		Credit Type	Fine Arts			
Grade Lev	⁄el	Prerequisite(s)	Art I & Art	t II					
•		dents who show both interes and exploration of painting		•				•	9
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

DRAWING		MCPS	-	High School Cr	edits	1	Graduation
		Course		Weighted			Requirement
		Code		Credit Type	Fine Arts		
Grade Level	Prerequisite(s)	Art I & Art II					
Course Description: This	course follows succes	sful complet	ion of two (2) y	ears of art founda	tions. (The ins	truc	tor may make

Course Description: This course follows successful completion of two (2) years of art foundations. (The instructor may make exceptions for students who show both interest and talent.) It is intended for advanced art students to have more time to pursue individual projects and exploration of drawing techniques. A more intense study of art history and visual problem solving will be made.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

				MCPS		High School C	Credits	1	Graduation	
SCULPTU	IRE			Course	91403	Weighted			Requirement	
				Code		Credit Type	Fine Arts			
Grade Leve	el		Prerequisite(s)	Art I & Art	: II		L		L	
exceptions	for stud	dents who s	rse follows succes show both interest ation of sculpture	sful comple t and talent	tion of two (2) ye	or advanced art	students to hav	/e m	ore time to purs	
AHS										
BHS	•									
CHS	•									
EMHS										
				MCPS		High School C	Credits	1	Graduation	
CERAMIC	CS I			Course	91750	Weighted			Requirement	
				Code		Credit Type	Fine Arts			
Grade Leve	el		Prerequisite(s)				1 11101110			
technique,	pinch m	nethod, glaz	uilding and wheel ze application, firi levelop a visual ap	ng techniqu	es, history of cera	amics, and relat	ed artist studies			<u> </u>
BHS	•									
CHS										
CHS EMHS	•									
EMHS				MCPS	91760	High School C	Credits	1	Graduation Requirement	
				Course	91760	Weighted	T	1	Graduation Requirement	
CERAMIC	CS II		Prerequisite(s)	Course Code			Credits Fine Arts	1	1	
CERAMIC Grade Leve Course De- understand throwing to studied to	cs II scription ding and echniqu further	I to increase es in the qu the depth o	Prerequisite(s) rse is a continuation their knowledge lest to become a r of their understand	Course Code Ceramics on of Ceram of Ceramic master at th	nics I. The focus o s. Further practic ne craft. Art Histo hance their maste	Weighted Credit Type of this course is the will help to derry, historical Poery. Art critique	Fine Arts for the student to evelop their han otters and Cultur	to ok id bu	Requirement otain a greater whee nowledge will be	
CERAMIC Grade Leve Course De- understand throwing to studied to	cs II scription ding and echniqu further	I to increase es in the qu the depth o	rse is a continuation of their knowledge sest to become a rought their understand	Course Code Ceramics on of Ceram of Ceramic master at th	nics I. The focus o s. Further practic ne craft. Art Histo hance their maste	Weighted Credit Type of this course is the will help to derry, historical Poery. Art critique	Fine Arts for the student to evelop their han otters and Cultur	to ok id bu	Requirement otain a greater whee nowledge will be	
CERAMIC Grade Leve Course Desunderstand throwing to studied to develop a	cs II scription ding and echniqu further	I to increase es in the qu the depth o	rse is a continuation of their knowledge sest to become a rought their understand	Course Code Ceramics on of Ceram of Ceramic master at th	nics I. The focus o s. Further practic ne craft. Art Histo hance their maste	Weighted Credit Type of this course is the will help to derry, historical Poery. Art critique	Fine Arts for the student to evelop their han otters and Cultur	to ok id bu	Requirement otain a greater whee nowledge will be	
CERAMIC Grade Leve Course Desunderstand throwing to studied to develop a levelop a l	cs II scription ding and echniqu further higher le	I to increase es in the qu the depth o	rse is a continuation of their knowledge sest to become a rought their understand	Course Code Ceramics on of Ceram of Ceramic master at th	nics I. The focus o s. Further practic ne craft. Art Histo hance their maste	Weighted Credit Type of this course is the will help to derry, historical Poery. Art critique	Fine Arts for the student to evelop their han otters and Cultur	to ok id bu	Requirement otain a greater whee nowledge will be	
CERAMIC Grade Leve Course Desunderstand throwing to studied to develop a land	cs II scription ding and echniqu further higher le	I to increase es in the qu the depth o	rse is a continuation of their knowledge sest to become a rought their understand	Course Code Ceramics on of Ceram of Ceramic master at th	nics I. The focus o s. Further practic ne craft. Art Histo hance their maste	Weighted Credit Type of this course is the will help to derry, historical Poery. Art critique	Fine Arts for the student to evelop their han otters and Cultur	to ok id bu	Requirement otain a greater whee nowledge will be	
CERAMIC Grade Leve Course Desunderstand throwing to studied to develop a levelop a l	cs II scription ding and echniqu further higher le	I to increase es in the qu the depth o	rse is a continuation of their knowledge sest to become a rought their understand	Course Code Ceramics on of Ceram of Ceramic master at th	nics I. The focus o s. Further practic ne craft. Art Histo hance their maste	Weighted Credit Type If this course is the will help to do the ry, historical Poery. Art critique to of others.	Fine Arts for the student to evelop their han otters and Cultures will be held (v	to ok id bu	Requirement otain a greater whee nowledge will be	
CERAMIC Grade Leve Course Desunderstand throwing to studied to develop a levelop a l	cs II scription ding and echniqu further higher le	I to increase es in the qu the depth o	rse is a continuation of their knowledge sest to become a rought their understand	Course Code Ceramics on of Ceram of Ceramic master at th	nics I. The focus o s. Further practic ne craft. Art Histo hance their maste	Weighted Credit Type If this course is the will help to do the the course is the will help to do the the course is the will help to do the the course is the will help to do the the course is the co	Fine Arts for the student to evelop their han otters and Cultures will be held (vertically be a credits	to ok id bu	Requirement otain a greater whee nowledge will be	
CERAMIC Grade Leve Course Desunderstand throwing to studied to develop a land AHS BHS CHS EMHS CERAMIC	cs II scription ding and echniqu further higher le	I to increase es in the qu the depth o	rse is a continuation of their knowledge their knowledge test to become a result of their understand all appreciation for	Course Code Ceramics on of Ceram of Ceramic master at th ding and en one's own MCPS Course Code	l nics I. The focus of s. Further practic ne craft. Art Histo hance their maste art and for the ar	Weighted Credit Type If this course is the will help to do the ry, historical Poery. Art critique to of others. High School C	Fine Arts for the student to evelop their han otters and Cultures will be held (v	to ob id bu ral Kr	Requirement otain a greater uilding and whee nowledge will be al and written), t	
CERAMIC Grade Leve Course Desunderstand throwing the studied to develop a levelop a le	cs II scription ding and echniqu further higher le	I to increase es in the qu the depth o evel of visua	rse is a continuation of their knowledge their knowledge dest to become a result of their understandal appreciation for their understandal	Course Code Ceramics on of Ceram of Ceramic master at th ding and en one's own MCPS Course Code Ceramics	I nics I. The focus of s. Further practic ne craft. Art Histo hance their maste art and for the ar	Weighted Credit Type If this course is the will help to do the servery. Art critiquents of others. High School Course weighted Credit Type	Fine Arts for the student to evelop their han otters and Cultures will be held (vertical to the following states). Credits Fine Arts	to ok ad bu ral Kr vverb	Requirement otain a greater hilding and whee howledge will be al and written), t Graduation Requirement	0
Grade Level Course Desunderstand throwing to studied to develop a level of the studied to develop a level of	cs II scription ding and echniqu further higher le • • • • cs III el scription	I to increase es in the quantity the depth of visual error. This could be read to the depth of visual error.	rse is a continuation of their knowledge their knowledge test to become a roof their understandal appreciation for their understandal appr	Course Code Ceramics on of Ceram of Ceramic master at th ding and en one's own MCPS Course Code Ceramics	I nics I. The focus of s. Further practic ne craft. Art Histo hance their maste art and for the ar	Weighted Credit Type If this course is the will help to do the servery. Art critiquents of others. High School Course weighted Credit Type	Fine Arts for the student to evelop their han otters and Cultures will be held (vertical to the following states). Credits Fine Arts	to ok ad bu ral Kr vverb	Requirement otain a greater hilding and whee howledge will be al and written), t Graduation Requirement	10
CERAMIC Grade Leve Course Desunderstand throwing to studied to develop a language of the studied of the st	cs II scription ding and echniqu further higher le • • • • cs III el scription	I to increase es in the qu the depth o evel of visua	rse is a continuation of their knowledge their knowledge test to become a roof their understandal appreciation for their understandal appr	Course Code Ceramics on of Ceram of Ceramic master at th ding and en one's own MCPS Course Code Ceramics	I nics I. The focus of s. Further practic ne craft. Art Histo hance their maste art and for the ar	Weighted Credit Type If this course is the will help to do the servery. Art critiquents of others. High School Course weighted Credit Type	Fine Arts for the student to evelop their han otters and Cultures will be held (vertical to the following states). Credits Fine Arts	to ok ad bu ral Kr vverb	Requirement otain a greater hilding and whee howledge will be al and written), t Graduation Requirement	10
Grade Level Course Desunderstand throwing to studied to develop a level of the studied to develop a level of	cs II scription ding and echniqu further higher le • • • • cs III el scription	I to increase es in the quantity the depth of visual error. This could be to increase the countity the tenth of visual error.	rse is a continuation of their knowledge their knowledge test to become a roof their understandal appreciation for their understandal appr	Course Code Ceramics on of Ceram of Ceramic master at th ding and en one's own MCPS Course Code Ceramics	I nics I. The focus of s. Further practic ne craft. Art Histo hance their maste art and for the ar	Weighted Credit Type If this course is the will help to do the servery. Art critiquents of others. High School Course weighted Credit Type	Fine Arts for the student to evelop their han otters and Cultures will be held (vertical to the following states). Credits Fine Arts	to ok ad bu ral Kr vverb	Requirement otain a greater hilding and whee howledge will be al and written), t Graduation Requirement	10
CERAMIC Grade Leve Course Desunderstand throwing to studied to develop a language of the studied to develop a language of	cs II scription ding and echniqu further higher le • • • cs III el scription rning ad •	I to increase es in the quantity the depth of visual error. This could be to increase the countity the tenth of visual error.	rse is a continuation of their knowledge their knowledge test to become a roof their understandal appreciation for their understandal appr	Course Code Ceramics on of Ceram of Ceramic master at th ding and en one's own MCPS Course Code Ceramics	I nics I. The focus of s. Further practic ne craft. Art Histo hance their maste art and for the ar	Weighted Credit Type If this course is the will help to do the servery. Art critiquents of others. High School Course weighted Credit Type	Fine Arts for the student to evelop their han otters and Cultures will be held (vertical to the following states). Credits Fine Arts	to ok ad bu ral Kr vverb	Requirement otain a greater hilding and whee howledge will be al and written), t Graduation Requirement	10

		MCPS		High School C	redits	1	Graduation		
PHOTOGRAPHY I		Course	91900	Weighted			Requirement		
		Code		Credit Type	Fine Arts				
Grade Level	9-12	Prerequisite(s)	Art I (regu	ired), Art 2 (recor	nmended)				

Course Description: This course This course introduces the study of photography as an art medium with a focus on developing photographic compositions through manipulation of the fundamental processes of artistic expression. Student self-expression as a means of creative communication is emphasized throughout the course. Students will explore the history of photography, including significant movements, before learning and enhancing photo composition skills including image manipulation light effects, shutter, and aperture manipulation, and computer digital manipulation of color and black and white photographic images. Through the course, students will learn to make meaningful visual statements with an emphasis on personal creative expression to communicate ideas, feelings, or values related to the theme of a sense of place. Students will also engage in critiques of their photographic images, works of other students, and those by professional photographers for the purpose of reflecting on and refining their work. Students will be expected to demonstrate technical understanding and creativity through a variety of projects based on practical applications of the Elements of Art and Principles of Design. Students will develop and maintain a beginning portfolio for assessment and exhibition.

0		
AHS	•	
BHS		
CHS		
EMHS		

AD CTUDIO ADT		∧ D°	MCPS		High School C	redits	1	Graduation	
AP STUDIO ART			Course Code	9148A	Weighted		✓	Requirement	
2D DESIGN					Credit Type	Fine Arts			
Grade Level	Grade Level Prerequisite(s)		Portfolio I	Review or Teacher	Recommendat	ion			

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 2-D design. 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		

	∧ D°			High School C	Credits	1	Graduation	
AP STUDIO ART		MCPS		Weighted		✓	Requirement	
3D DESIGN		Course Code	9149A	Credit Type	Fine Arts			
Grade Level	rade Level Prerequisite(s)	Portfolio	Review or Teache	r Recommendat	tion			

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 3-D design. 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		

			2	I	1			_	<u> </u>	
AP STUD	IO ART	Γ	AP	MCPS		High School C	reaits	1	Graduation	
DRAWIN	G POR	TFOLIO		Course	9150A	Weighted		✓	Requirement	
			1	Code		Credit Type	Fine Arts			
Grade Leve			Prerequisite(s)	1						
school and dimension concentrat portfolio.	possible al media e on the To possi	y get colleg a, students eir drawing ibly receive	Studio Art Program te credit. Having ac will use visual pro portfolio. In orde college credit, the dio Art requires a	chieved tra blem solvin er to receive e student m	ining in basic kno og skills to further e an AP weighted oust submit their	wledge and expe explore Color and credit; the stud portfolio to the G	erience of two a nd Design, Draw ent must satisfa College Board a	ind/o ving, actor nd p	or three Sculpture and ily complete the ay the associated	AP
AHS	•									
BHS	•									
CHS	•									
EMHS										
	•	•								
				MCPS		High School C	redits	1	Graduation	
DE ART/	MUSIC	APPRECI	ATION	Course	DE9197V	Weighted		<u>−</u>	Requirement	
VIRTUAL				Code	DESISTA		Fine Arts		qu	+
Dual Enrolled	√	NI Con	EW RIVER	NRCC Course Code(s)	ART 100 & MUS 121	Credit Type College Credit		6		<u> </u>
Grade Leve	el	11-12	Prerequisite(s)	See Belov	v *					
language of lives and ir develops to within the * In order (see pages	of music offluentia echniqu context to enrol 9-10 ar	through an all creative in the	t is covered chrono introduction to b ndividualities, disc ning analytically ar g societal structure ourse, students mu in addition to su a fee to NRCC.	asic elemer covering rep nd critically es. ust meet al	nts, forms and sty oresentative work . The historical de I admission and o	rles across time. ss and milestone evelopment and course placemer	It acquaints stu s in western so significance of a	dent ciety art m	s with composer , as well as usic are explore	d
AHS	•	,	a ree to rinee.							
BHS	•									
CHS	•									
EMHS	•									
	<u> </u>									
MUSIC H	ISTOR	Y/LITERA	TURE	MCPS Course	92210	High School C Weighted		1	Graduation Requirement	
0 1 :		T	B 1 1 1 1	Code		Credit Type	Fine Arts			
for the stu student wi Medieval t AHS BHS	scription dent wh II study	o does not music as it	Prerequisite(s) non-performance plan to continue frelates to his/her will include comp	further stud personal ex paring style Not curre	dy in music. It is r operience and env	not a prerequisit vironment. Stud f music with an e to multiple facto	e for other art of ents will study a emphasis on de ors, including	or mu all pe velor	usic courses. The eriods of music fi ping listening skil	rom
CHS EMHS		-	Stude	nts interest	ted in this course	should see their	school counse	lor.		

	MUSIC THEORY				High School C	redits	1	Graduation	
MUSIC THEORY			Course	92250	Weighted			Requirement	
			Code		Credit Type	Fine Arts			
Grade Leve	el	Prerequisite(s)	Must be a	ble to read music	•				
Course Des	scriptio	n: This course provides stude	nts with ar	in-depth study of	f the materials a	and structures o	f mu	ısic including: foi	rm
and analys	is, basic	harmony and theory, and co	mpositiona	l techniques. Stu	dents will be gi	ven the opportu	ınity	to compose.	
AHS									
BHS	•								
CHS	•								
EMHS									

	MCPS High School Credits		edits	1	Graduation				
BEGINNING BAND			Course	92320	Weighted			Requirement	
			Code		Credit Type	Fine Arts			
Grade Leve	el	Prerequisite(s)							
		hasis is placed on the basic el tinue their studies in music.		•		•			
AHS									
BHS									
CHS				·	·	·		·	
EMHS	•								

			MCPS		High School C	redits	1	Graduation		
INTERM	EDIATE	BAND	Course 92330 Weighted Requir					Requirement		
			Code		Credit Type	Fine Arts				
Grade Lev	el	Prerequisite(s)	Two years	of instrumenta	l music			•		
		n: Intermediate Band is a per ts who have at least two (2) y								
AHS										
внѕ	•	· ·	ermediate Band is a performing group composed mainly of 9th and 10th grade students. Students must we a minimum of two years of instrumental experience. Performances include three school concerts and							
CHS	•		listrict concert festival. Materials covered in concert band include concert literature, basic theory, and history							
EMHS	•	open to all students who hat their middle school director to modern popular music at transposition, and additional concerts each school year, v	nve at least to the marching marching al music the various com	of literature covered in the class. Intermediate Band is a performing group composed of instrumental students. Membership in this group is open to all students who have at least two (2) years of instrumental experience or the recommendation of their middle school director. Music will range widely in style from classics and serious concert band literation modern popular music and marching music. Additional materials and topics such as minor scales.						

			MCPS		High School C	redits	1	Graduation		
ADVANO	ED BA	ND	Course	92340	Weighted			Requirement		
			Code		Credit Type	Fine Arts				
Grade Lev	el	Prerequisite(s)							•	
Course De	scriptio	n:								
		Advanced Band is a perform to all students who have at	least two (2) years of instrun	nental experien	ce or the recom	men	dation of their		
AHS	•	middle school director. Mu modern popular music and transposition, and additions	marching r	nusic. Additional	materials and to	opics such as mi	nor	scales,		
		transposition, and additional music theory may be included as appropriate. Performances include several concerts each school year, various competitions, football games, parades, and other activities deemed necessary by the director. The student is required to attend scheduled rehearsals and concert performances Extra rehearsals and individual practice is required.								
BHS	•	Prerequisite: Intermediate	•	·						
СНЅ	•	Reading. Students may be a musicianship techniques wi standard of musical exceller	Prerequisite: Intermediate Band Prerequisite: Audition only. Audition includes Major scales, Chromatic Scale, Prepared Piece and Sight Reading. Students may be admitted to this class only through a successful audition. More advanced musicianship techniques will be explored in a full ensemble setting. Students will be held to the highest tandard of musical excellence. Participation and attendance is required for District Band Festival, the spring concert, and any other scheduled performance, as well as any scheduled after-school rehearsals.							
EMHS	Advanced Band is a performing group composed of instrumental students. Membership in this group is open to all students who have at least two (2) years of instrumental experience or the recommendation of their middle school director. Music will range widely in style from classics and serious concert band literature to modern popular music and marching music. Additional materials and topics such as minor scales, transposition, and additional music theory may be included as appropriate. Performances include several concerts each school year, various competitions, football games, parades, and other activities deemed necessary by the director. The student is required to attend scheduled rehearsals and concert performances. Extra rehearsals and individual practice is required.									

			MCPS		High School Credits			Graduation	
GUITAR	GUITAR			Course 92	92450 Weighted	Weighted	ed		Requirement
				Code		Credit Type Fine Art			
Grade Leve	el	9-12	Prerequisite(s)						
Course De	scriptio	n: This cou		g guitar stude	ents. No prior	experience is requ	ired. The cou	rse c	overs basic musi
	-			g guitar stude	ents. No prior	experience is requ	ired. The cou	rse c	overs basic musi
reading, ch	-		rse is for beginnin	g guitar stude	ents. No prior	experience is requ	ired. The cou	rse c	overs basic musi
reading, ch	-		rse is for beginnin	g guitar stude	ents. No prior	experience is requ	ired. The cou	rse c	overs basic musi
	-		rse is for beginnin	g guitar stude	ents. No prior	experience is requ	ired. The cou	rse c	overs basic musi

CNAALL	MALL INSTRUMENTAL ENSEMBLE /			MCPS		redits	1	Graduation
			Course 92520 Code	Weighted			Requirement	
PERCUSS	SION I	ECHNIQUES			Credit Type	Fine Arts		
Grade Lev	el	Prerequisite(s)	Percussion	students OR b	and director's app	roval.		
Symphonia	r Rand	Additionally students will be	required to i	narticinate in s	chadulad partarm	ancac tar narci	ICCIO	
of this clas	s will be	e on percussion techniques ar		•	cheduled perioriii	ances for perce	255101	n ensemble. Focu
of this clas	s will be	• •		•	cheduled periorin	ances for perce	155101	n ensemble. Focu
of this clas	s will be	• •		•	cheduled perform	ances for percu	155101	n ensemble. Focu
	s will be	• •		•	cheduled perioriii	ances for perce	155101	n ensemble. Focu

SMALL E	NICENAL	DIE /		MCPS		High School C	redits	1	Graduation	
		-		Course	Course 92960				Requirement	
COLOR G	IUARD	TECHNIC	UES	Code		Credit Type	Fine Arts			
Grade Level Prerequisite(s) Percussion students OR band director's approval.						oroval.				
Course Description: Color Guard Techniques is offered during the fall term for students 9-12. Students enrolled in this class							d in this class will	lbe		
considered	l a mem	ber of the I	Marching Band an	d will be re	quired to participa	ate in all footba	ll games, compe	etitio	ns, and activities	
scheduled	for Mar	ching Band	. Focus of this clas	s will be on	color guard techr	niques and perfo	ormance.			
AHS			N/	ot current	ly offered due to	multiple fact	ors including			
BHS										
CHS					t, availability of					
EMHS			Stuaents	intereste	d in this course s	snouia see the	eir school coun	iseio	or.	
	•	•								

			MCPS		High School Cre	edits	1	Graduation Requirement	
PIANO L	AB I		Co		92550	Weighted			
		Code Credit Type Fine Arts							
Grade Leve	el	9-12	Prerequisite(s)	Students sh	ould have no	previous piano exp	erience.		
Understan	ding of	oiano keybo	-	ositive attitu	ide and contin	sed in music readir uing interest in mu ruments.	_		•
AHS	•								
АПЭ			_				-		
	•								
BHS CHS	•								

						High School C	redits	1	Graduation
PIANO L	AB II			Course	92551	Weighted Weighted			Requirement
				Code Credit Type Fine Arts					
Grade Lev	rel	10-12	Prerequisite(s)	Students naverage.	nust have succe	essfully completed	Unit 8 in Piano	Lab	I with an "A"
accepted	into the	class by aud	s will continue inst dition. Students au Piano Lab I. Class	ıditioning m	ust be able to p	erform at a comp	arable skill leve		
completin									
	•								
AHS BHS	•								
AHS	•								

CAAALL MOCAL	MALL VOCAL ENSEMBLE /			High School Credits			Graduation	
CHORALE		Course	92800	Weighted			Requirement	
		Code		Credit Type	Fine Arts			
Grade Level Prerequisite(s)								

Course Description: Chorale is a performance class whose membership is strictly limited to students in grades 10-12. Students will work on presenting quality public performances. Students will read and sing music with four to eight part harmony, demonstrating excellent vocal and choral techniques.

AHS	•	No audition is necessary
внѕ	•	Prerequisite: One year of Chorus/Band/or other vocal (musical) experience and successful audition. Chorale is a performance class whose membership is strictly limited to students in grades 10-12. Students will work on presenting quality public performances. Students will read and sing music with four to eight part harmony, demonstrating excellent vocal and choral techniques. The group will learn music of a moderately difficult level chosen from all major periods. Performances will include two school concerts as well as other community invitations. These students are also eligible for district chorus. Auditions for chorale are held in the spring.
снѕ	•	Prerequisite: Audition Only. Chorale is a performance class in which students will work on presenting quality public performances. Students will read and sing music with four to eight-part harmonies, demonstrating excellent vocal and choral techniques. The group will perform music of a high difficulty level chosen from all major periods. Performances will include three school concerts as well as other community invitations.
EMHS	•	

		ENSEMBL	E /	MCPS Course	92802	High School C Weighted	redits	1	Graduation Requirement
MADRIG	ALS			Code		Credit Type	Fine Arts		
Grade Leve	el		Prerequisite(s)	One year audition.	of Chorus/Band/o	r other vocal (n	nusical) experier	nce a	and successful
concerts pl	lus man choral te	y communit echniques.	ty performances. Repertoire will inc	The studen	ts in grades 10-12 It will read and per It mainly from the F Ins for Madrigals a	form music in t Renaissance Per	four to eight par riod. All studen	rts, u	•
AHS									
BHS	•								
CHS									
EMHS									

CDAALL VOCAL	SMALL VOCAL ENSEMBLE / CHAMBER ENSEMBLE		MCPS		High School C	redits	1	Graduation	
			Course	92803	Weighted			Requirement	
CHAMBER ENS			Code		Credit Type	Fine Arts			
Grade Level	Grade Level Prerequisite(s)		Audition (Only					

Course Description: This vocal ensemble is open to students in grades 10-12 who have been selected by audition only. This is a performance class which will present quality public performances using the best styles of music literature from major periods emphasized. The student will sing and read music in four to eight-part harmony using good vocal and choral techniques. This class is limited to 20 students.

AHS	•	No audition is necessary
BHS		
CHS	•	
EMHS		

0041	TNICENARUE II	MCPS	02004	_	redits	1	Graduation	
OCAL I	ENSEMBLE II		92804	weighted			Requirement	
				Credit Type	Fine Arts			
rade Level Prerequisite(s)			Approval Required					
L2. Stud	dents will work on presenting	g quality pu	blic performances					nt
•								
•								
	el scription	cription: Chorale is an extensive str 12. Students will work on presenting	Course Code Prerequisite(s) Teacher A cription: Chorale is an extensive study and per L2. Students will work on presenting quality pu	Course Code Prerequisite(s) Teacher Approval Required Scription: Chorale is an extensive study and performance class with the control of the	Code 92804 Weighted Code Credit Type Prerequisite(s) Teacher Approval Required Credit Type Coription: Chorale is an extensive study and performance class whose membership companies will work on presenting quality public performances. Students will response to the contract of the cont	Course Code Code Credit Type Fine Arts Prerequisite(s) Teacher Approval Required Code Credit Type Fine Arts Course Code Code Prerequisite(s) Code Prerequisite(s) Code Prerequisite(s) Code Prerequisite(s) Code Prerequisite(s) Code Credit Type Fine Arts Course Fine Arts Course Code Credit Type Fine Arts Code C	Course Code 92804 Weighted Requirement Code Prerequisite(s) Teacher Approval Required Coription: Chorale is an extensive study and performance class whose membership is strictly limited to students in L2. Students will work on presenting quality public performances. Students will read and sing music with four to eight	

CD 4 A L L V	OCAL ENGERADI	<i>= 1</i>	MCPS		High School Cre	edits	1	Graduation
	OCAL ENSEMBL	.E /	Course	92805	Weighted	Weighted		Requirement
SWING CI	HOIR		Code		Credit Type	Fine Arts		
Grade Leve	I	Prerequisite(s)	•					
Course Des	cription:							
AHS								
BHS								
CHS								
EMHS	grades nir pass an au technique be studied music, po performa	ne through twelve udition to ascertai e for the advanced d. This performan p, jazz and Broadv nce instruction. T s to perform, and	. Ninth grad n the level of choral stude ce choir stud vay. Choreog he class is pe	e students sho f performance ent, and music lies literature graphy as appr erformance ori		icant participa full vocal rang high school cl ds of music, as es is included ee school con	ation e, ut noru s we as a certs	s experiences, will Il as contemporary part of s, community

INITERM	FDIATI	E CHORUS	: /	MCPS		High School C	redits	1	Graduation	
CONCER			, ,	Course	92850	Weighted	T		Requirement	
CONCER				Code		Credit Type	Fine Arts			
Grade Lev	el	9-12	Prerequisite(s)							
Course De	scriptio	n:								
AHS	•	class othe will include may reque appropriation		desire to sii jor concert nearsals. Th chniques. F	ng and learn the b s a year, occasion se student will beg Repertoire will inc	asic concepts of al assembly prog in to learn to re lude music from	music. It is a p grams and/or co ad music and w all major perio	erfo omm vill sin	rmance class and nunity events, and ng music using tyles, and	d d
ВНЅ	•	class othe will include may requ	Choir is a non-auding than a genuine of the at least two maine some extra relate vocal/choral tess.	desire to sin jor concert nearsals. Th	ng and learn the b s a year, occasion se student will beg	asic concepts of al assembly prog in to learn to re	music. It is a pgrams and/or coad music and w	erfo omm vill si	rmance class and nunity events, and ng music using	d
CHS	•		nts registering for	choir will l	oe placed in this c	lass until after a	auditions.			
EMHS	•	class othe will include may requ	Choir is a non-auding than a genuine of the at least two maire some extra relate vocal/choral tess.	desire to sin jor concert nearsals. Th	ng and learn the b s a year, occasion se student will beg	asic concepts of al assembly prog in to learn to re	music. It is a p grams and/or co ad music and w	erfo omm vill si	rmance class and lunity events, and ng music using	d

		·		MCDC		High School Cr	edits	1	Graduation
THEATR	ΕI			MCPS	1.41.00	Weighted			Requirement
INTROD	UCTIO	N TO THE	ATRE	Course Code	14100	Credit Type	Fine Arts		SOL Test(s) Required
Grade Lev	⁄el	9-12	Prerequisite(s)	An enthusi	asm for perfor	mance.			
	-				-	articipate in a creat	•		
producing course em	g, and pe	erforming th s foundatio	eatre. Students w	ill analyze, ir emble work,	nterpret, and e	articipate in a crear valuate dramatic lit opment and provid	erature and th	neatr	rical works. The
producing course em students t	g, and pe	erforming th s foundatio	eatre. Students w nal concepts, ense	ill analyze, ir emble work,	nterpret, and e	valuate dramatic lit	erature and th	neatr	rical works. The
producing course em students t AHS	g, and pe	erforming th s foundatio	eatre. Students w nal concepts, ense	ill analyze, ir emble work,	nterpret, and e	valuate dramatic lit	erature and th	neatr	rical works. The
producing course em	g, and pe	erforming th s foundatio	eatre. Students w nal concepts, ense	ill analyze, ir emble work,	nterpret, and e	valuate dramatic lit	erature and th	neatr	rical works. The

THEATRE II			MCPS		High School C	redits	1	Graduation	
DRAMATIC LIT	EDATIIDE		Course	14200	Weighted			Requirement	
			Code	14200	Credit Type	Fine Arts		SOL Test(s)	
& THEATRE HIS	IORY		Code		Credit Type	Fille Arts		Required	
Grade Level	10-12	Prerequisite(s)	Theatre I	or Teacher Approv	val (based on st	udent's experie	nce)		

Course Description: The standards for Theatre Arts II help students make use of and build upon the concepts learned and skills acquired in Theatre Arts I. Through various modes of expression and performance, students investigate dramatic literature, theatrical styles, and historical periods. They study and respond to a variety of theatrical experiences that refine their communicative, collaborative, analytical, interpretive, and problem-solving skills. Students expand their artistic abilities by examining a variety of creative and technical roles in performance and production.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

THEATRE III			MCPS		High School C	redits	1	Graduation	
INTERMEDIATE	ACTING			14230	Weighted			Requirement	1
& PLAYWRITIN			Course Code	14230	Credit Type	Fine Arts		SOL Test(s) Required	
Grade Level	11-12	Prerequisite(s)	Theatre I	& II or Teacher Ap	proval (based o	n student's exp	erie	nce)	

Course Description: The standards for Theatre Arts II help students make use of and build upon the concepts learned and skills acquired in Theatre Arts I. Through various modes of expression and performance, students investigate dramatic literature, theatrical styles, and historical periods. They study and respond to a variety of theatrical experiences that refine their communicative, collaborative, analytical, interpretive, and problem-solving skills. Students expand their artistic abilities by examining a variety of creative and technical roles in performance and production.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

		MCDC		High School C	redits	1	Graduation	
THEATRE IV		MCPS	14300	Weighted			Requirement	
ADVANCED AC	TING & DIRECTING	Course Code	14300	Cradit Type	Fine Arts		SOL Test(s)	
		Code		Credit Type	rille Ai ts		Required	
Grade Level	Prerequisite(s)	Theatre II	I or Teacher Appro	oval (based on s	tudent's experi	ence	2)	

Course Description: The standards for Theatre Arts IV help students refine the concepts learned and skills acquired in Theatre Arts III while reinforcing the principles learned in Theatre Arts I and II. Through research and inquiry of theatre topics of personal interest, students develop and refine creative choices for performance, production, and direction. They study and respond to a variety of theatrical experiences, applying their critical thinking skills. Students develop and showcase leadership skills involving communication, problem solving, and collaboration to achieve unified productions.

AHS		
BHS	•	
CHS	•	
EMHS		

TECHNICA		ATDE		MCPS	14250	High School C Weighted	redits	1	Graduation Requirement	
TECHNICA	AL IHE	AIKE		Course Code	14350	Credit Type	Fine Arts	ı	SOL Test(s) Required	
Grade Level	l		Prerequisite(s)	None (Tea	acher Approval ba	sed on student'	s experience)	•		
production, on fine arts	and mand oth	anagement. her disciplind anagement.	Students developes, they work ind	p problem- ividually ar	nelp students applisolving, communiond collaboratively sating procedures,	cation, organiza to explore the i	tional, and mar	nagei ipon	ment skills. Draw ents of design,	
AHS						•				
BHS	•									
CHS										
EMHS										

			MCPS		High School Cre	edits	1	Graduation
MUSICA	I TUE	TDE	Course	14480	Weighted			Requirement
MOSICA	AL INE	AIRE	Code	14460	Credit Type	Fine Arts		SOL Test(s) Required
Grade Lev	vel	Prerequis	site(s) Teacher A	pproval				
they need	d to be s	n: This course expand uccessful in musical the acting. This course ma	eatre. This course	by allowing stuis for students v	who want the music			
they need	d to be s	uccessful in musical the	eatre. This course	by allowing stuis for students v	who want the music			
they need than focu	d to be s	uccessful in musical the	eatre. This course	by allowing stuis for students v	who want the music			
they need than focu AHS	d to be s	uccessful in musical the	eatre. This course	by allowing stuis for students v	who want the music			

CAREER & TECHNICAL EDUCATION ELECTIVES

Corps of Cadets

					High School Credits		1	Graduation
			MCPS 79131 (Part 1) Weighted			Requirement		
CORPS OF CAI	DETS I		Course Code	79131 (Part 1) 79132 (Part 2)	Credit Type CTE			CTE Credential Test(s) May Be Required
Grade Level	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	•
BHS	•
CHS	•
EMHS	•

Corps of Cadets is offered on a semester basis. Classes will meet for 90 minutes every day for one semester.

Students may choose to take the course for one semester (Part 1) or two semesters (Parts 1 & 2).

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

					High School Credits			Graduation
			MCPS	79161 (Part 1)	Weighted			Requirement
CORPS OF CAD	DETS II		Course Code	79161 (Part 1) 79162 (Part 2)	Credit Type CTE			CTE Credential Test(s) May Be Required
Grade Level	10-12	Prerequisite(s)	Corps of 0	Cadets I				

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. In Corps of Cadets II students are expected to take on a leadership role and be a model for Corps of Cadets I students. Corps of Cadets II students will be responsible for teaching skills and lesson to Corps of Cadet I students with the full support and oversight of the classroom instructor. 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	•
BHS	•
CHS	•
FMHS	•

Corps of Cadets is offered on a semester basis. Classes will meet for 90 minutes every day for one semester. Students may choose to take the course for one semester or two semesters.

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

					High School Credits			Graduation
			MCPS	70191 (Dart 1)	Weighted			Requirement
CORPS OF CADI	ETS III		Course Code 79181 (Part 1) 79182 (Part 2) Credit Type CTE			CTE Credential Test(s) May Be Required		
Grade Level	11-12	Prerequisite(s)	Corps of 0	Cadets II				

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. In Corps of Cadets III students begin to take on additional leadership roles including leading and teaching students in the Corps of Cadets I course with the full support and oversight of the classroom instructor. 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	•
BHS	•
CHS	•
EMHS	•

Corps of Cadets is offered on a semester basis. Classes will meet for 90 minutes every day for one semester.

Students may choose to take the course for one semester or two semesters.

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

				High School Credits		1	Graduation	
		MCPS	79201 (Part 1)	Weighted			Requirement	
CORPS OF CAD	ETS IV		Course Code	79201 (Part 1) 79202 (Part 2)	Credit Type CTE			CTE Credential Test(s) May Be Required
Grade Level	12	Prerequisite(s)	Corps of	Cadets III	_	_		_

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. In Corps of Cadets III students begin to take on additional leadership roles including leading and teaching students in the Corps of Cadets I course with the full support and oversight of the classroom instructor. 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	•
BHS	•
CHS	•
EMHS	•

Corps of Cadets is offered on a semester basis. Classes will meet for 90 minutes every day for one semester.

Students may choose to take the course for one semester or two semesters.

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

Agriculture Table of Contents

					High School C	redits	1	Graduation
INTRODUCTION	LTO		MCPS		Weighted			Requirement
PLANT SYSTEM			Course Code	80070	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Level	9-10	Prerequisite(s)		•	•	•		

Course Description: Students develop competencies in each of the major areas of the Plant Systems career pathway including applied botany, plant propagation, plant care and selection. Instructional content also includes an introduction to the various divisions of the plant systems industry. Students learn agricultural mechanics applicable to plant systems. As with all agriculture courses, students will be exposed to principles of leadership and opportunities within student organizations along with Supervised Agricultural Experiences opportunities. **VDOE Maximum Section Enrollment Applies.**

AHS	
BHS	
CHS	
EMHS	

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

HORTICU	II TI IRA	AI SCIFNI	^F	MCPS		High School Co	redits	1	Graduation Requirement
& PRACT	_	AL SCILIV	uL .	Course Code	80340	Credit Type	СТЕ	•	CTE Credential Test(s) May Be Required
Grade Leve	el	10-12	Prerequisite(s)	•					
employme	nt and a	advanceme	ourse, students de nt in areas such as n Section Enrollme	floriculture,		-			-
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

GREENHOUSE PLANT PRODUCTION		ANT PRODUCTION MCPS High School Credits Weighted	edits	1	Graduation Requirement						
& MANA			ODOCTION	Course Code	80350	Credit Type			Credit Type CTE		CTE Credential Test(s) May Be Required
Grade Lev	el	9-12	Prerequisite(s)	Horticultui	re Sciences & P	ractices					
flower sho	p and g	arden cent	er. The student wi	II have the c	pportunity to	producing and ma ake the certification ection Enrollment	n tests for Co	-			
AHS											
BHS	•										
CHS											

Graduation

Requirement

1

	LIUKE			Course	80380	Credit Type	CTE		CTE Credential Test(s) May Be	
				000.0		Credit Type	CIL		Required	
Grade Leve	el	9-12	Prerequisite(s)	<u> </u>					•	
Course Des	scriptio	n: This cou	rse will help devel	op the nece	ssary knowledge	e, skills, habits, a	nd attitudes for	entr	y-level positions	in
			nts will receive ins				• .	r pro	duction, selling a	nd
shipping flo	owers, a	nd floral sh	nop management.	VDOE Max	imum Section E	nrollment Applie	es.			
AHS										
BHS										
CHS	•									
EMHS	•									
						High School C	redits	1	Graduation	
				MCPS		Weighted			Requirement	
FLORAL D	DESIGN	1 I		Course Code	80550				CTE Credential	
						Credit Type	CTE		Test(s) May Be	
			T						Required	
Grade Leve	el	10-12	Prerequisite(s)							
	-		s learn design and		_	_				
	_		retail floriculture		will learn to ider	ntify floral materi	ial and supplies	com	monly found in	
floral shops	s, as we	ll ac card ai								
		ii as care ai	nd handling of fres	sh flowers.						
AHS	•	ii as care ai	nd handling of fres	sh flowers.						
BHS	•	ii as care ai	nd handling of fres	sh flowers.						
BHS CHS	•	ii as care ai	nd handling of fres	in flowers.						
BHS		as care a	nd handling of fres	in flowers.						
BHS CHS	•	ii as care ai	nd handling of fres	in flowers.						
BHS CHS	•	ii as care ai	nd handling of fres	n flowers.						
BHS CHS	•	ii as cale al	nd handling of fres	n flowers.		High School C	redits	1	Graduation	
BHS CHS EMHS	•		nd handling of fres	MCPS		High School C Weighted	redits	1	Requirement	
BHS CHS	•		nd handling of fres	MCPS Course	80360	Weighted		1	Requirement CTE Credential	
BHS CHS EMHS	•		nd handling of fres	MCPS	80360		redits CTE	1	Requirement CTE Credential Test(s) May Be	
BHS CHS EMHS	• • APING	ı		MCPS Course	80360	Weighted		1	Requirement CTE Credential	
BHS CHS EMHS	• • • APING	10-12	Prerequisite(s)	MCPS Course Code		Weighted Credit Type	СТЕ		Requirement CTE Credential Test(s) May Be Required	
BHS CHS EMHS LANDSCA Grade Leve Course Des	• • APING	l 10-12 1: Landsca	Prerequisite(s) Doing is designed as	MCPS Course Code	tional preparatio	Weighted Credit Type on course. The ho	CTE orticulture progi	ram (Requirement CTE Credential Test(s) May Be Required assists students in	1
BHS CHS EMHS LANDSCA Grade Leve Course Des developing	• APING cription	10-12 n: Landscap ressary kno	Prerequisite(s) Ding is designed as wledge, skills, hab	MCPS Course Code	tional preparatio tudes for entry-le	Credit Type on course. The ho	CTE prticulture progr t and advancem	ram (Requirement CTE Credential Test(s) May Be Required assists students in	7
BHS CHS EMHS LANDSCA Grade Leve Course Des developing floriculture	• APING scription the nece, landsc	10-12 n: Landscap ressary kno ape design	Prerequisite(s) Ding is designed as wledge, skills, hab	MCPS Course Code	tional preparatio tudes for entry-le	Credit Type on course. The ho	CTE prticulture progr t and advancem	ram (Requirement CTE Credential Test(s) May Be Required assists students in	7
BHS CHS EMHS LANDSCA Grade Leve Course Des developing floriculture VDOE Max	• APING scription the nece, landsc	10-12 n: Landscap ressary kno ape design	Prerequisite(s) oing is designed as wledge, skills, hab, greenhouse open oilment Applies.	MCPS Course Code s an occupati its, and atti	tional preparatio tudes for entry-le ery plant produc	Credit Type on course. The hoevel employment	CTE Orticulture progi t and advancem nagement.	ram (Requirement CTE Credential Test(s) May Be Required assists students in	7
BHS CHS EMHS LANDSCA Grade Leve Course Des developing floriculture VDOE Max AHS	• APING scription the nece, landsc	10-12 n: Landscap ressary kno ape design	Prerequisite(s) Ding is designed as wledge, skills, hab , greenhouse oper ollment Applies.	MCPS Course Code s an occupations, and attications, nurse	tional preparatio tudes for entry-la ery plant produc y offered due t	Weighted Credit Type on course. The had evel employment tion and turf ma	CTE orticulture progretand advancement. ors, including	ram (Requirement CTE Credential Test(s) May Be Required assists students in a areas such as	7
BHS CHS EMHS LANDSCA Grade Level Course Des developing floriculture VDOE Max AHS BHS	• APING scription the nece, landsc	10-12 n: Landscap ressary kno ape design	Prerequisite(s) Ding is designed as Wedge, skills, hab I, greenhouse open Dilment Applies. No	MCPS Course Code s an occupatiits, and attiinations, nurs ot currently	tional preparatio tudes for entry-le ery plant produc y offered due t , availability o	Weighted Credit Type on course. The horevel employment it in and turf material to multiple factors of certified staff,	CTE priculture progretand advancement. priculture progretand advancement. priculture progretand advancement. priculture progretand advancement.	ram o	Requirement CTE Credential Test(s) May Be Required assists students in a areas such as	7
BHS CHS EMHS LANDSCA Grade Leve Course Des developing floriculture VDOE Max AHS	• APING scription the nece, landsc	10-12 n: Landscap ressary kno ape design	Prerequisite(s) Ding is designed as Wedge, skills, hab I, greenhouse open Dilment Applies. No	MCPS Course Code s an occupatiits, and attiinations, nurs ot currently	tional preparatio tudes for entry-le ery plant produc y offered due t , availability o	Weighted Credit Type on course. The had evel employment tion and turf ma	CTE priculture progretand advancement. priculture progretand advancement. priculture progretand advancement. priculture progretand advancement.	ram o	Requirement CTE Credential Test(s) May Be Required assists students in a areas such as	7

MCPS

High School Credits

Weighted

					High School C	redits	1	Graduation	
			MCPS		Weighted			Requirement	
LANDSCAPING	//		Course	80390				CTE Credential	
			Code		Credit Type	CTE		Test(s) May Be	
								Required	
Grade Level	11-12	Prerequisite(s)	Landscapir	ng I					
Course Description	n: In this co	ourse, students exc	amine conte	mporary gardei	n design from a hi	storical perspec	tive.	Commercial and	
high-end residenti	al landscap	e designs are deve	eloped that i	ncorporate a w	ide range of speci	alty garden styl	es. L	andscape project:	S
are approached fr	om an entr	epreneurial aspect	. VDOE Ma	ximum Section	Enrollment Appli	es.			
AHS		N/	ot currently	offered due	to multiple fact	ors including			
BHS			-					200114000	
CHS				-	of certified staff,				
EMHS	•	Stuaents	s interested	in this cours	e should see the	rir schooi coun	seio	r.	
			, ,				1		
					High School C	redits	1	Graduation	
AGRICULTURA	I MECHA	NICS	MCPS		Weighted			Requirement	
	_		Course	80080					
y back arina								CTE Credential	
& BASIC ANIMA	AL SCIEN	CE	Code		Credit Type	CTE		0.1 0.0000	
& BASIC AINIIVIA	AL SCIEN	CE	Code		Credit Type	СТЕ		Test(s) May Be	
Grade Level	9-10	Prerequisite(s)	Code		Credit Type	СТЕ		0.1 0.0000	
Grade Level	9-10	Prerequisite(s)		with emphasis		-	ricity	Test(s) May Be Required	
Grade Level Course Descriptio	9-10 n: Student	Prerequisite(s) s learn agricultura	I mechanics,		s placed on fundar	mentals of elect		Test(s) May Be Required	5
Grade Level	9-10 n: Student	Prerequisite(s) s learn agricultura gines, power woo	I mechanics,	nd wood and m	placed on fundar	mentals of elect		Test(s) May Be Required	S

			MCPS		High School C	redits	1	Graduation Requirement
SMALL ANIMA	SMALL ANIMAL CARE		Course Code	80830	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Level	9-12	Prerequisite(s)						

AHS BHS CHS EMHS

Course Description: Students will learn how to care and manage small animals, focusing on instructional areas in animal health, nutrition, management, reproduction, evaluation, training, and when applicable, showmanship. Course content also includes instruction in the tools, equipment, and facilities for small animal care and provides activities to foster business management and leadership development. **VDOE Maximum Section Enrollment Applies.**

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

			MCPS High School Credits MCPS Weighted Course 80880		1	Graduation			
	ETERINARY SCIENCE				80880	Weighted			Requirement
VETERINARY SCIENCE				Course Code		Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Lev	⁄el	10-12	Prerequisite(s)	Small Anim	nal Care				
pathology	v. It will a	also include		nimal care in	dustry, laborat	nimal first aid and (ory procedures, nut	•		• .
					~-				iary office
AHS	•				-				ial y office
	•								lary office
AHS	•								ially office

EQUINE MANAGEMENT					High School Credits		1	Graduation	
		MCPS Course Code	80800	Weighted			Requirement		
& PRODUCTION				Credit Type	СТЕ		CTE Credential Test(s) May Be Required		
Grade Level 9-12 Prerequisite(s)				•					-
evaluation	and sho	owmanship		ructional are	as. Course co	horses. Equine hea Intent also includes I <mark>lies.</mark>		-	
AHS	•								
BHS	•								
CHS	•								

						High School C	redits	1	Graduation
INTROD	NTRODUCTION TO NATURAL RESOURCES		MCPS		Weighted			Requirement	
				Course Code	80400	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Lev	vel .	9-12	Prerequisite(s)						
	-	identificati	s develop skills and on and forest mea pollution control a	surement ar	nd managemer	nt, Virginia fish and	d wildlife mana		
conservat	-		ollment Applies.	and the gene	rai preservatio	on or natural resot	11003.		
conservat	-		•	and the gene	rai preservatio	on of flatural resoc			
conservat	ximum S		•	and the gene	rui preservatio	on of natural resoc			
conservat VDOE Ma AHS	ximum 9		•	and the gene	rui preservatio	on or natural resoc	inces.		

FISHERIES & WILDLIFE MANAGEMENT		MCPS		High School C Weighted	redits	1	Graduation Requirement	
			Course Code	80410	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Level	9-12	Prerequisite(s)	Introduction	on to Natural R	esources			
<u>-</u>		eries and Wildlife itats. Content add	_					agement of wildlife

fisheries and wildlife is also included. VDOE Maximum Section Enrollment Applies.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

					High School Credits		1	Graduation
		MCPS		Weighted			Requirement	
SMALL ENGINI	SMALL ENGINE REPAIR I		Course Code	80820	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Level	9-12	Prerequisite(s)			_			_

Course Description: This course offers an intensive study of the operation, maintenance, and repair of small gasoline and diesel engines. Instructional topics include principles of operation of gasoline and diesel engines, tune-up and maintenance procedures, and disassembly, overhaul, and reassembly. Instruction may also include the operation of two cycle and four-cycle engines commonly found on lawn mowers, garden tractors, snow blowers, rotary tillers, chainsaws, and other equipment.

VDOE Maximum Section Enrollment Applies.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

				High School Credits		1	Graduation	
		MCPS		Weighted			Requirement	
ADVANCED SM	ADVANCED SMALL ENGINES REPAIR		Course Code	80821	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Level	irade Level 10-12 Prerequisite(s)		Small Eng	ines Repair				

Course Description: The Small Engine Repair II course will build upon basic skills taught in Small Engine Repair I. The student will explore and discuss in detail more advanced engine theory, including clearances, measurements, and adjustments. The students will also learn and master the Part Smart computer program, which is the industry's standard software used to order and inventory small engine parts. VDOE Maximum Section Enrollment Applies.

	•	
AHS	•	
BHS	•	
CHS	•	
EMHS	•	

Business & Information Technology (IT)

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

				MCPS		High School C	redits	1	Graduation
DE BUSINESS MANAGEMENT			Course Code	DE6135	Weighted		✓	Requirement	
					Credit Type	CTE		CTE Credential	
Dual Enrolled	✓	Ne Con Co	NEW RIVER Community College		BUS 100	College Credit	ts	3	Test(s) May Be Required
Grade Level 11-12 Prerequisite(Prerequisite(s)	See Below	*					

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 9-10 and 195-197) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

BUSINESS MANAGEN	1ENT	61350	This course may be taken by students who are not eligible to take a dual enrolled course						
AHS									
BHS	•	The DE61	The DE6135 course will be offered at BHS based on the availability of qualified staff.						
CHS	•	Only the 6	Only the 61350 course is offered at CHS (NOT DE).						
EMHS	•	Only the 61350 course is offered at EMHS (NOT DE).							

ACCOUNTING				High School Credits Weighted		1	Graduation	
		MCPS					Requirement	
		Course Code	63200	Credit Type	СТЕ		CTE Credential Test(s) May Be Required	
Grade Level	10-12	Prerequisite(s)						

Course Description: Students study the basic principles, concepts, and practices of the accounting cycle. Topics covered include analyzing transactions, journalizing and posting entries, preparing payroll records and financial statements, and managing cash systems. Ethics and professional conduct are emphasized.

AHS		
BHS	•	
CHS	•	
EMHS		

						High School C	redits	1	Graduation
i			_	MCPS		Weighted			Requirement
ADVANCED ACCOUNTING				Course Code	63210	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Lev	/el	11-12	Prerequisite(s)	Accounting	g				
	•		s will continue to g financial decisions		_		• .		es useu to solve
-		omputer pro				actor is in learning	5 4 / 14.0 4.0	<i>a</i>	counting and
-						ation is in learning	9 a	7100	counting and
QuickBoo						ation is in learning	B		ounting and
QuickBool						ation is in learning			counting and

		10-12 Prerequisite(s) Students enhance word proof professionals. Students sanagement, and financial rec			High School Credits		1	Graduation
			MCPS		Weighted			Requirement
OFFICE ADMI			Course 60	66210	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Level	10-12	Prerequisite(s)						
administrative s	ipport profes	sionals. Students	study office p	orocedures suc	· · · · · · · · · · · · · · · · · · ·	, ,		,
AHS		M	nt currently	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								
EMHS		12 Prerequisite(s) dents enhance word pro rofessionals. Students sement, and financial rec No historical stude	ents interested in this course should see their school counselor.					

DE COMPU	DE COMPUTER		Solvemor's STEM	MCPS	DECC13	High School Credits Weighted		1	Graduation Requirement
INFORMATION SYSTEMS		ZE O STANDARD MANUSCRIPT	Course Code	DE6612	Credit Type	СТЕ		CTE Credential	
Dual Enrolled	✓	NE Com	NEW RIVER		CSC 110	College Credit	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 Principles of Computer Science. To meet NRCC requirements, students in this course apply problem-solving skills to real-life situations through word processing, spreadsheets, databases, multimedia presentations, and integrated software activities.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

		,	
DE COMPUTER INFORMATION SYSTEMS (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.
COMPUTER INFORMATION SYSTEMS		66120	This course may be taken by students who are not eligible to take a dual enrolled course
AHS	•		
BHS	•		
CHS	•		
EMHS	•		

			Source STEM	MCPS		High School Co	redits	1	Graduation Requirement			
ADVANCED COMPUTER INFORMATION SYSTEMS			E Manufacture	Course	66130	Credit Type	СТЕ		CTE Credential Test(s) May Be Required			
Grade Lev	Grade Level 10-12 Prerequisite(s)			Computer	Computer Information Systems							
	-		apply problem-sol, electronic, and v	_		ations through adv	anced integrat	ed so	oftware			
AHS	•											
BHS												
CHS												
EMHS												

DE DESIGN,	DE DESIGN, MULTIMEDIA				DE6630	High School Credits Weighted		1	Graduation Requirement	
& WEB TECHNOLOGIES		ZE O Se	Course Code	DE0030	Credit Type	СТЕ		CTE Credential		
Dual Enrolled	✓	NE Com Co	NEW RIVER Community College		ITD 110	College Credi	ts	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 <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

DESIGN, MULTIMEDIA & WEB TECHNOLOGIES		66300	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	Only the 6630 (Non-DE) course is offered at BHS.						
CHS	•	Only the I	Only the DE6630 course is offered at CHS.						
EMHS									

ADVANCED DESIGN, MULTIMEDIA & WEB TECHNOLOGIES		South STEM	MCPS		High School Cre Weighted	edits	1	Graduation Requirement	
		E O S	Course Code	66310	Credit Type	СТЕ		CTE Credential Test(s) May Be Required	
Grade Lev	/el	11-12	Prerequisite(s)	Design, M	ultimedia, and \	Web Technologies			
	and con				•	p and Illustrator. S shop, Fireworks, F			•
a website	•								
AHS									
AHS	•								

	INTRODUCTION TO					High School C	redits	1	Graduation
		OT V		MCPS		Weighted			Requirement
INTERAC PROGRA		G	F. O. Manufacture	Course Code	66400	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Lev	el	11-12	Prerequisite(s)						
programm throughou including g	ing proc it the co game pro	edures wit urse. Grapl ograms. In	h one or more star	ndard langu s may be u employ HT	uages, and master sed as students de	programming fesign and devel	undamentals. Cop interactive n	odin nultii	nedia applications,
AHS	•								
BHS									
CHS	•								
EMHS									
			ar's Cr.			High School C	redits	1	Graduation
ADVANO	ED		Secretary 7	MCPS		Weighted			Requirement
PROGRA				Course	66410				CTE Credential
PKUGKA	IVIIVIIIV	G	THE LOCAL PROPERTY OF THE PARTY	Code		Credit Type	CTE		Test(s) May Be
		1	Manulo						Required
Grade Lev		11-12	Prerequisite(s)		ion to Interactive I				
application explore an method is	ns for W d create availabl	indows, da application e for this co	on a foundation of tabase, multimedions related to the in ourse. Students cor rvision throughout	a, games, n formation mbine class	nobile, and/or We technology and go room instruction o	b environments ame design indu	. Students will h Istries. The coop	ave perat	the opportunity to ive education
AHS			No	ot currenti	ly offered due to	multiple fact	ors. includina		
BHS			historical stude					nt re	esources.
CHS					ed in this course :				
EMHS									
INIEGOS	A TI 0 ::		or's Cr.			High School C	redits	1	Graduation
INFORM			ESECUTION STEAM IN	MCPS		Weighted			Requirement
TECHNO FUNDAN	/ENTA	LS	THE MADURE MADE	Course Code	66700	Credit Type CTE			CTE Credential Test(s) May Be Required
Grade Lev	el	9-10	Prerequisite(s)						
	-		tion Technology (I7 ms leading to prof				chnical and prof	essic	onal skills required

AHS BHS CHS EMHS

DE CYBERSECURITY I		UTV I	Scremor's STEM	MCPS Course	D	High School Credits Weighted			Graduation Requirement
		ATTY I	I Y I		DE6302	Credit Type	СТЕ		CTE Credential
Dual Enrolled	✓	□ N Cor	NEW RIVER Community College		ITN 106	College Credits 2		2	Test(s) May Be Required
Grade Level		9-12	Prerequisite(s)	See Below	<i>i</i> *	•			

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

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-10 and 195-197) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

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

DE CYBERSECURITY II		Contempor's STEN	MCPS	DE6304	High School Credits Weighted		1	Graduation Requirement	
		Z. O. S. Manufactill	Course Code		Credit Type	СТЕ		CTE Credential	
Dual Enrolled	✓	■ NEW RIVER Community College		NRCC Course Code(s)	ITN 101	1 1 -			Test(s) May Be Required
Grade Level 9-12 Prerequisite(s)			See Below *	•					

Course Description: Cybersecurity Software Operations is designed to teach many aspects of computer support and network administration. Students learn networking concepts, from usage to components, and create peer-to-peer network systems and client server networks. Students learn how to install and configure network cards and connect them to networks; to install the operating systems; to create, set up, and manage accounts; to load software; and to establish, implement, and maintain network integrity security plans. This course may cover software-based network operating systems, such as Windows Server or Linux, to prepare students with a foundation in computer network administration.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

		1		
CYBERSECURITY II 63040		63040	This course may be taken by students who are not eligible to take a dual enrolled course	
AHS • Only 63020 is offered at AHS (Non-DE)				
BHS	BHS •			
CHS	•			
EMHS	•	Only 630	020 is offered at EMHS (Non-DE)	

DE CYBERSECURITY III		Screenor's STEW 76	MCPS Course	DE6306	High School Credits Weighted			Graduation Requirement	
		111 7 111	Z O S Manufactiff	Code	DE0300	Credit Type	СТЕ		CTE Credential
Dual Enrolled	✓	□ N Cor	NEW RIVER		ITN 261	College Credits		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 9-10 and 195-197) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

CYBERSECU	CYBERSECURITY III 6306		This course may be taken by students who are not eligible to take a dual enrolled course					
AHS	•	Only 630	20 is offered at AHS (Non-DE)					
BHS	•							
CHS	•							
EMHS								

DE COMPUTER SCIENCE			MCPS		High School Credits Weighted			Graduation Requirement		
PROGRAMMING 1 (VIRTUAL)			Course Code	DE6640V	Credit Type	СТЕ		CTE Credential Test(s) May Be		
Dual Enrolled	✓	■ NEW RIVER Community College		NRCC Course Code(s)	CSC 221	College Credit	College Credits 3		Required	
Grade Level		9-12	Prerequisite(s)	DE6612 DE Computer Information Systems (CSC 110)						

Course Description: This course is based on the NRCC syllabus for CSC 221 Introduction to Problem Solving and Programming. Introduces problem solving and implementation of solutions using a high-level programming language in a structured programming environment. Includes concepts and practice of structured programming, problem-solving, top-down design of algorithms, a high-level programming language syntax, control structures, arrays, and an introduction into object-oriented programming.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

DE COMPUTER SCIENCE PROGRAMMING 2 (VIRTUAL)			MCPS	DE6641V	High School Credits Weighted			Graduation Requirement	
			Course Code		Credit Type	СТЕ		CTE Credential Test(s) May Be	
Dual Enrolled	✓	■ NE Com	W RIVER	NRCC Course Code(s)	CSC 222	College Credits		4	Required
Grade Level		9-12	Prerequisite(s)	s) DE6640V DE Computer Science Programming 1 (Virtual)					
Course Descri	iotio	n: This cou	rse is based on the	e NRCC svlla	bus for CSC 222 C	Obiect-Oriented	Programming.	intro	duces the concepts

Course Description: This course is based on the NRCC syllabus for CSC 222 Object-Oriented Programming. introduces the concepts and techniques of object-oriented programming to students with a background in procedural programming and problem solving. Uses a high-level computer language to illustrate and implement the topics.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

DE COMPUTER SCIENCE					High School Credits Weighted		1	Graduation Requirement	
PROGRAMMING 3 (VIRTUAL)		E Manufaction Manufaction	Course Code	DE6642V	Credit Type	СТЕ		CTE Credential	
Dual Enrolled	✓	NE Con	NEW RIVER		CSC 223	College Credit	s	4	Test(s) May Be Required
Grade Level 9-12 Prerequisite(s) DE6641V DE Computer Science Programming 2 (Virtu					ng 2 (Virtual)		1		

Course Description: This course is based on the NRCC syllabus for CSC 223 Data Structures and Analysis of Algorithms. Explores and contrasts data structures, algorithms for manipulating data structures, and their use and appropriateness in writing efficient real-world programming applications. Investigates implementations of different data structures for efficient searching, sorting, and other transformer operations.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

Marketing

EMHS

						High School C	redits	1 Graduation	Graduation
PRINCIPLES OF BUSINESS			MCPS	61150	Weighted			Requirement	
& MARKETING		Course Code	Credit Type		СТЕ		CTE Credential Test(s) May Be Required		
Grade Leve	el	9-10	Prerequisite(s)	None					
Basic finan	Course Description: Students discover the roles of business and marketing in the free enterprise system and the global economy. Basic financial concepts of banking, insurance, credit, inheritance, taxation, and investments are investigated to provide a strong background as students prepare to make sound decisions as consumers, wage earners, and citizens.							•	
AHS									
BHS	•								
CHS									

		MCPS		High School C	redits	1	Graduation Requirement	
MARKETING			Course Code	81200	Credit Type	СТЕ	1	CTE Credential Test(s) May Be Required
Grade Level	10-12	Prerequisite(s)						

Course Description: Students are introduced to functions and foundations involved in the marketing of goods, services, and ideas and achieve skills necessary for successful marketing employment. Students study risk management, selling, promotion, pricing, purchasing, marketing-information management, product/service planning, distribution, and financing.

Completion of 81200 and DE8130 is required to receive dual enrolled credit for MKT 100 at NRCC.

AHS		
BHS	•	
CHS	•	
EMHS	•	

DE DIGITAL & SOCIAL MEDIA			MCPS Course	DE8125	High School C Weighted	redits	1	Graduation Requirement	
WARKETING	ARKETING			Code		Credit Type	CTE		CTE Credential
Dual Enrolled	✓	None Con Con	NEW RIVER Community College		MKT 282	College Credit	ts	3	Test(s) May Be Required
Grade Level 11-12 Prerequisite(s) So		See Below	*						

Course Description: This course is based on the NRCC syllabus for MKT 282, Principles of E-Commerce. To meet NRCC requirements, students receive an introduction to marketing functions and the business plan and study Internet marketing's role in the global economy. Students gain knowledge of the tools and techniques used in Internet marketing and learn how to design a Web site. They explore ethical, legal, and security aspects and prepare for a career in Internet marketing. Academic skills (mathematics, science, English, and history/social science) related to the content are a part of this course. Computer/technology applications supporting this course are studied.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-10 and 195-197) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

AHS		
BHS	•	This course will be offered at BHS based on the availability of qualified staff.
CHS		
EMHS		

	DE ADVANCED MARKETING			MCPS		High School C	redits	1	Graduation
DE ADVANC				Course	DE8130	Weighted		✓	Requirement
			Code		Credit Type	CTE		o== 0	
Dual Enrolled	✓	■ NE Com	RW RIVER	NRCC Course Code(s)	MKT 100	College Credi	ts	3	CTE Credential Test(s) May Be Required
Grade Level 11-12 Prerequisite(s) Marketing *									

Course Description: This course is based on the NRCC syllabus for MKT 100, Principles of Marketing. To meet NRCC requirements, students continue to gain knowledge of marketing functions and foundations as they relate to supervisory and management responsibilities and develop skills needed for advancement. They develop skills for supervisory positions and/or for continuing education in a marketing-related field.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

NOTE: Completion of 81200 and is required to receive dual enrolled credit for NRCC's MKT 100.

ADVANCE! MARKETIN		81300	This course may be taken by students who are not eligible to take a dual enrolled course						
AHS									
BHS	•	The DE81	30 course will be offered at BHS based on the availability of qualified staff.						
CHS	•	Only the 8	Only the 81300 course is offered at CHS (NOT DE)						
EMHS	•	Only the 8	Only the 81300 course is offered at EMHS (NOT DE)						

				High School Credits			Graduation	
		MCPS		Weighted		✓	Requirement	
MARKETING M	IANAGEN	IENT	Course Code	81320	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Level	12	Prerequisite(s)						_

Course Description: This course is designed for high school seniors who plan to attend college with a concentration in marketing, business, or management and/or who have plans to manage or own a business. Students will be exposed to all aspects of marketing and management. These skills will translate to small and large businesses, nonprofit organizations, service industries, and government agencies. This course will prepare students for a College Board CLEP examination to earn college credit at some accredited colleges and universities across the country.

AHS		
BHS	•	
CHS	•	
EMHS	•	

				MCPS		High School C	redits	1	Graduation Requirement	
ADVERT	SING I	DESIGN I		Course Code	85700	Credit Type CTE		CTE Credential Tests(s) May Be Required		
Grade Lev	el	10-11	Prerequisite(s)	•		•	1 104			
explores th	ne elem	ents and pr	sing Design studen Finciples of design p a professional po	in a project-	_		_			
AHS	•	This cours	se requires studen	ts to attend	BHS for at least	st a part of the school day (transportation provided).				
BHS	•									
CHS	This course requires student			ts to attend	BHS for at least	st a part of the school day (transportation provided).				
EMHS	•	This cours	se requires studen	ts to attend	BHS for at least	st a part of the school day (transportation provided).				

	OVERTISING DESIGN II		MCPS		High School Co Weighted	redits	2	Graduation Requirement	
ADVERT			Course 85710 Code	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required		
Grade Lev	el	11-12	Prerequisite(s)	Advertisin	g Design I				
Course De	scriptio	n: Continu	ation of Advertisin	g Design I.					
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	•	This cours	is course requires students to attend BHS for at least a part of the school day (transportation provided).						
EMHS	•	This cour	This course requires students to attend BHS for at least a part of the school day (transportation provided).						

				MCPS		High School Co Weighted	redits	1	Graduation Requirement
GRAPHICS IMAGING TECHNOLOGY I			Course 86600	86600	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required	
Grade Lev	el	9-11	Prerequisite(s)						
course De	scriptio	ni Grapnic	illiagilig Technolo	2 V I IIIII ()()()()	-> >1111121115 111				
overview of Students le	earn to	practice wo	ration, image capto orkplace safety and	ure, color the I develop skil	eory, digital file Is in measurer	e output, press ope ment, mathematics n Enrollment Appl	erations, and b al problem solv	inde	
overview of Students locommunic	earn to	practice wo	ration, image captor orkplace safety and application proces	ure, color the I develop skil s. VDOE Ma	eory, digital file Is in measurer ximum Section	e output, press ope ment, mathematic	erations, and b al problem solv ies.	indei /ing,	ry operations. interpersonal
overview of Students le	earn to ation, a	practice wo	ration, image captor orkplace safety and application proces	ure, color the I develop skil s. VDOE Ma	eory, digital file Is in measurer ximum Section	e output, press ope ment, mathematica n Enrollment Appl	erations, and b al problem solv ies.	indei /ing,	ry operations. interpersonal
overview of Students lo communic AHS	earn to ation, a	practice wo	ration, image captor orkplace safety and application proces	ure, color the I develop skil s. VDOE Ma	eory, digital file Is in measurer ximum Section	e output, press ope ment, mathematica n Enrollment Appl	erations, and b al problem solv ies.	indei /ing,	ry operations. interpersonal

				MCPS		High School C Weighted	redits	2	Graduation Requirement			
GRAPHIC IMAGING TECHNOLOGY II				Course 86610	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required				
Grade Lev	el	10-12	Prerequisite(s)	Graphics I	Graphics Imaging Technology I							
			Imaging Technolo skills in digital file									
AHS	•	This cours	se requires studen	ts to attend	BHS for at least	a part of the sch	ool day (transp	ortat	tion provided).			
BHS	•											
CHS												
EMHS	EMHS • This course requires stude				BHS for at least	a part of the sch	ool day (transp	ortat	tion provided).			

	GRAPHICS IMAGING VISUALIZATION		MCPS		High School Cre Weighted	dits	1	Graduation Requirement	
GRAPHIC			UALIZATION	Course Code	84590	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Lev	el	9-12	Prerequisite(s)	None					
solve prob geometry.	lems inv	volving 3-D ts create a	object manipulati variety of animation	on, storyboa ons that refle	rding, texturing ect real-world a	tion by using graph g/mapping, lighting pplications and are inal student work is	concepts, and introduced to	d env	vironmental
AHS									
BHS									
CHS	•								
EMHS									

	ASHION MARKETING		MCPS		High School Cre Weighted	dits	1	Graduation Requirement	
				Course 81400 Code	Credit Type	СТЕ		CTE Credential Test(s) May Be Required	
	scriptio	-		_		dge of the apparel a elop general market			-
employme	nt in fas	hion marke	eting, general marl	keting skills a	applicable to tl	ne apparel and access d to receive dual er	sories indust	ry, a	nd specialized skills
AHS									
BHS	•								
CHS	•								
EMHS									

				MCPS		High School C	redits	1	Graduation	
DE ADVANC	E ADVANCED FASHION MARKETING				DE8145	Weighted		✓	Requirement	
				Code		Credit Type	CTE		CTE Credential	
Dual		C N In	Duven	NRCC					Test(s) May Be	
Enrolled	✓		EW RIVER	Course	MKT 120	College Credit	ts	3	Required	
Elifolieu		Con	imunity College	Code(s)					Required	
Grade Level		11-12 Prerequisite(s)		See Below	*					

Course Description: This course is based on the NRCC syllabus for MKT 120, Fundamentals of Fashion. To meet NRCC requirements, students with a career interest in apparel and accessories marketing gain in-depth knowledge of the apparel and accessories industry and skills important for supervisory-management employment in apparel businesses. They develop advanced skills unique to fashion marketing and advanced general marketing skills applied to the apparel and accessories industry.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

NOTE: Completion of 81400 and DE8145 is required to receive dual enrolled credit for NRCC's MKT 120

ADVANCEI FASHION MARKETIN	_	81450	This course may be taken by students who are not eligible to take a dual enrolled course
AHS			
BHS	•	Only the	31450 course is offered at BHS (NOT DE)
CHS	•	Only the	31450 course is offered at CHS (NOT DE)
EMHS			

	FNTERTAINMENT				High School C	redits	1	Graduation
SPORTS & ENTERTAINMENT MARKETING		MCPS		Weighted			Requirement	
		Course 81750 Code	Credit Type	СТЕ		CTE Credential Test(s) May Be Required		
Grade Level	10-12	Prerequisite(s)						

Course Description: This introductory course helps students develop a thorough understanding of fundamental marketing concepts and theories as they relate to the sports, entertainment, and recreation industries. Students will investigate the components of branding, sponsorships and endorsements, as well as promotion plans needed for sports, entertainment and recreation events. **Completion of 81750 and DE8177 is required to receive dual enrolled credit for NRCC's MKT 209.**

AHS		
BHS	•	
CHS	•	
EMHS		

Graduation

DE ADVAN	CED S	SPORTS 8	š.	MCPS		High School C	redits	1	Graduation	
ENTERTAIN	NTERTAINMENT			Course	DE8177	Weighted		✓	Requirement	
MANAGEM	ENT			Code		Credit Type	CTE		CTE Credential	
Dual Enrolled	✓	□ N Cor	EW RIVER	NRCC Course Code(s)	MKT 209	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 MKT 209 Sports, Entertainment and Recreation Marketing. To meet NRCC requirements, students will build on prior knowledge of sports, entertainment, and recreation marketing. This course focuses on the principles of management and planning supported by research, financial, and legal concepts.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-10 and 195-197) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

NOTE: Completion of 81750 and DE8177 is required to receive DE credit for NRCC's MKT 209

ADV SPOR ENTERTAIN MANAGEN	NMENT	81770	This course may be taken by students who are not eligible to take a dual enrolled course							
AHS										
BHS	•	The DE8	177 course will be offered at BHS based on the availability of qualified staff.							
CHS	•	Only the	81770 course is offered at CHS (NOT DE)							
EMHS			,							

High School Credits

				MCPS		Weighted		Requirement	
OPPORT	OPPORTUNITIES IN GLOBAL TRADE				81350	Credit Type CTE		CTE Credential Test(s) May Be Required	
Grade Leve	Grade Level 10-12 Prerequisite(s)								
	-		larketing and Com		*	-			
			_	nding of the various careers in global trade, finance, shipping, and marketir					
consider fu	ndamei	ntal concep	ts, principles, and	theories of	marketing in an i	international setti	ing.		
AHS			M	nt current	ly offered due t	o multiple facto	ors including		
BHS								t resources	
CHS	Students								
EMHS				s interested in this course should see their school counselor.					

ADVANCED			MCPS		High School Credits Weighted		1	Graduation Requirement
	PPORTUNITIES IN GLOBAL TRADE		Course Code	81360	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Level	Grade Level 12 Prerequisite(s)			nities in Global Tr	ade			
Course Description international traditional traditional concepts are reviews.	e, builds up	on concepts learn	ed in Global	Marketing and C	Commerce (8135)). Economic an		
AHS BHS CHS EMHS	-	historical stude	nt interest	y offered due to t, availability of d in this course	certified staff,	and/or curre	ent re	

Family & Consumer Science

			MCPS		High School C Weighted	redits	1	Graduation Requirement
INTRODUCTIO	N TO CULI	NARY ARTS	Course Code	82500	Credit Type	CTE		CTE Credential Test(s) May Be Required
Grade Level	9-10	Prerequisite(s)						

Course Description: The Introduction to Culinary Arts curriculum provides students with opportunities to explore career options and entrepreneurial opportunities within the food service industry. Students investigate food safety and sanitation, explore culinary preparation foundations, practice basic culinary skills, explore diverse cuisines and service styles, investigate nutrition and menu development, and examine the economics of food. The curriculum places a strong emphasis on science and mathematics knowledge and skills

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

CULINARY ARTS I		MCPS		High School Co Weighted	redits	2	Graduation Requirement		
		Course Code	82750	Credit Type	СТЕ		CTE Credential Test(s) May Be Required		
Grade Leve	el	10-11	Prerequisite(s)						
independe	ntly ow	ned institut	s practice manage tional food establis food and food pro	shments and	related food in	dustry occupation	ns. Students p		•
AHS	•	This cours	se requires studen	ts 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	ts to attend	CHS for at least	a part of the sch	ool day (transp	orta	tion provided).

						High School C Weighted	redits	2	Graduation Requirement	
CULINAI	ILINARY ARTS II		Course 82760 Code	Credit Type	CTE		CTE Credential Test(s) May Be Required			
Grade Level 11-12 Prerequisite(s) Culinary Arts I										
other skill	s learne	d in Culinar	Arts II provides st y Arts I. Students de/assistant, food	prepare for	occupations su	ch as chef/cook, b	aker/pastry he	lper,	pastry decorator,	
AHS	•	This cours	se requires studen	ts to attend	BHS for at leas	st a part of the sch	ool day (transp	orta	tion provided).	
BHS	•									
CHS	•									
EMHS	•	This cours	This course requires students to attend CHS for at least a part of the school day (transportation provided).							

CULINARY AF Grade Level Course Descript	RTS SPECIA				High School C			Graduation
Grade Level	RTS SPECIA		MCPS		Weighted			Requirement
	Grade Level 12 Prerequisite(s)			82790	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Course Descript	12	Prerequisite(s)	Culinary A	rts II				
comprehensive Students explore planning menus available in the l Catering/Banque curriculum conti thinking, practic	knowledge of e careers and the careers and the careers and locality, studet Food-Prepinues to plactal problems	of the food service in the food service is distributed in the food service in our and the food service in	ndustry as vanium implement, and selectione of the fost, Restaurants on science	well as to expand nting safety and ing and maintain ollowing four are nt Operation Tec e and mathemat	d their technical s sanitation standa ling food service as: Baking and P chniques; Quantil ics knowledge ar	skills in a food s ards, applying n equipment. Del astry Food-Prep cy Food-Prepara nd skills as it em	ervic utriti pend parat	e specialty. onal principles, ing on the optior ion Techniques; Techniques. The
VDOE Maximun AHS •		rollment Applies. rse requires studen	ts to attend	RHS for at least	a nart of the sch	ool day (transn	ortat	tion provided)
BHS •	11113 COUI	se requires studen	to attend	d bits for at least	a part of the sci	ioor day (transp	orta	tion provided).
5.10								
CHS •								
CHS • EMHS •	This cour	rse requires studen	ts to attend	d CHS for at least	a part of the sch	ool day (transp	ortat	tion provided).
	This cou	rse requires studen	ts to attend	d CHS for at least	High School C		ortat	Graduation
		rse requires studen		CHS for at least	_		ortat	
INDEPENDEN Grade Level	T LIVING 9-12	rse requires studen Prerequisite(s) s enrolled in Indepe	MCPS Course Code	82190	High School C Weighted Credit Type	Credits CTE	1	Graduation Requirement CTE Credential Test(s) May Be Required

FAMILY RELATIONS				High School Ci	redits	1	Graduation
		MCPS	82250	Weighted			Requirement
		Course Code		Credit Type	СТЕ	Test(s) May E Required	
Grade Level	9-12 Prerequisite(s)						
patterns that enha	the lifespan, analyzing facto nce family relationships, dea s, and analyzing social forces	ling effective	ely with family s	tressors and conf			
	N	ot currently	offered due t	o multiple fact	ors, including		
AHS	İ						
	historical stude	ent interest,	. availability o	f certified staff,	and/or curre	ent re	esources.
AHS BHS CHS			,	f certified staff, should see the			

			MCPS		High School Cr Weighted	redits	1	Graduation Requirement
NUTRITION & WELLNESS		Course Code	82290	Credit Type	СТЕ	CTE Credential Test(s) May Be Required		
Grade Level	9-12	Prerequisite(s)						
Course Description analyzing relations and storing food fo preparation; and id	hips betwe r self and f	en psychological of family; preparing o	and social ne and serving n	eds and food ch autritious meals	noices; choosing fo and snacks; selec	oods that prom cting and using	ote	wellness; obtaining
AHS BHS CHS EMHS		historical stude	nt interest,	availability o	to multiple factor f certified staff, e should see the	and/or curre	nt r	

INTROD	RODUCTION TO RLY CHILDHOOD EDUCATION				High School Co Weighted	redits	1	Graduation Requirement	
			Course Code	82340	Credit Type	СТЕ		CTE Credential Test(s) May Be Required	
Grade Lev	el	9-12	Prerequisite(s)						
developm	ent of se	elf-concepts		esteem; lea	rning experien	the principles of cl ces for children; pr care.	-		•
AHS	•	This cours	se requires studen	ts to attend	BHS for at leas	st a part of the sch	ool day (trans	porta	tion provided).
BHS	•								
CHS	•								
EMHS	•	This cour	se requires studen	to to ottond	DUC for at lane		L -l - : . /+		ti a a a a a a di al a al V

EARLY CHILDHOOD		MCPS		High School C Weighted	redits	2	Graduation Requirement	
EDUCATION I	30 5		Course Code	82850	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Level	10-12	Prerequisite(s)	82340 Inti	oduction to Earl	y Childhood Edu	cation		

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

DE EARLY C	HILI	DHOOD		MCPS Course	DE8286	High School C	redits	2	Graduation Requirement	
EDUCATION	N II			Code	DE8280	Credit Type	СТЕ	<u> </u>		
Dual Enrolled	✓	NE Com Co	EW RIVER	NRCC Course Code(s)	CHD 118 & CHD 120	College Credit	ts	6	Tests(s) May Be Required	
Grade Level	Grade Level 11-12 Prerequisite(s) Early 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 9-10 and 195-197) 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.

	CHILDHOOD 82860 EDUCATION II		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 Cred	dits	1	Graduation
				MCPS		Weighted			Requirement
INTRODU	ICTIOI	N TO INTE	ERIOR DESIGN	Course Code	82550	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Leve	/	9-12	Prerequisite(s)						
	-					s on identifying and nysical and psycholo			
environmer		g			, a. c. c. ; c. ; c. ; c. ; c. ; c. ; c.	.,	9.00.000	, 0,	
AHS			M	ot currently	offered due	to multiple factors	including		
BHS									ocourcoc
CHS				ent interest, availability of certified staff, and/or current resources.					
			Stuaents	s interested in this course should see their school counselor.					

Table of Contents

					High School Cr	edits	2	Graduation
			MCPS		Weighted			Requirement
INTERIOR DESIGN I		Course Code	82950	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required Required	
Grade Level	10-12	Prerequisite(s)						
course Description selection, purchas selection, as they	e, design, a	nd decoration of h	ome furnish	nings and equipm	ent; floral design	; accessory cor	nstru	ction; and textiles
AHS BHS CHS EMHS	-	historical stude	nt interest	, availability of	o multiple facto certified staff, should see thei	and/or curre		

INTRODUCTIO	N TO		MCPS		High School C	redits	1	Graduation Requirement
FASHION CARE			Course Code	82480	Credit Type	СТЕ	·	CTE Credential Test(s) May Be Required
Grade Level	9-12	Prerequisite(s)						
Course Descriptio careers within the							xplor	ing the individual
AHS		0.1	-t	. offered due	to moultiple fact	ava includina		
BHS					to multiple fact			
CHS		historical stude						
EMHS		Stuaents	interested	in this course	e should see the	eir school coui	<i>1seio</i>	or.

					High School Cred	dits	1	Graduation		
INTPODUCTIO	N TO HOS	DITALITY	MCPS		Weighted			Requirement		
	ITRODUCTION TO HOSPITALITY, OURISM & RECREATION		Course Code	82590	Credit Type	СТЕ		CTE Credential Test(s) May Be Required		
Grade Level	9-12	Prerequisite(s)								
					m, and Recreation f industry rich in dive				lls	
AHS		N/	ot currontly	offered due	to multiple factor	c including				
BHS			-		to multiple factors	_		000114000		
CHS	historical stud									
EMHS	7	Students	interested in this course should see their school counselor.							

Health & Medical Sciences

INITRODI	INTRODUCTION TO HEALTH	MCPS		High School C Weighted	redits	1	Graduation Requirement			
	MEDICAL SCIENCES		Course Code	83020	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required		
Grade Leve	el	9-12	Prerequisite(s)							
Course Description: The healthcare field is or course introduces the student to the many ar						_	at job potential	for s	students. This	
course intr	oduces	the student	t to the many and	varied opp	ortunities in the h	ealthcare field.				
course intr	oduces 1	the student	t to the many and	varied opp	ortunities in the h	ealthcare field.				
		the student	t to the many and	varied opp	ortunities in the h	ealthcare field.				
AHS	•	the student	t to the many and	varied opp	ortunities in the h	ealthcare field.				

				MCPS		High School C	redits	2	Graduation
DE NURSE A	DE NURSE AIDE		Course	DE8331	Weighted		✓	Requirement	
				Code		Credit Type	CTE	CTE CT	
Dual Enrolled	✓	NE Com Co	■ NEW RIVER Community College		NUR 27	College Credit	s	5	CTE Credential Tests(s) May Be Required
Grade Level		11-12	Prerequisite(s)	See Below *	•				

Course Description: This course is based on the NRCC syllabus for Nurse Aide I (NUR 27). This course helps prepare students to take the Virginia State Certification for Nursing Assistants, though taking the exam is not required to complete the course. Students are introduced to a wide variety of basic skills related to the health care field, including non-nursing areas.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

NURSE AID	E	83310	This course may be taken by students who are not eligible to take a dual enrolled course			
AHS • This course requires students to attend BHS for at least a part of the school day (transportation provided).						
BHS	Both the 83310 course and the DE8331 course are offered at BHS					
CHS	•	Both the	83310 course and the DE8331 course are offered at CHS			
EMHS	•	This cours	se requires students to attend CHS for at least a part of the school day (transportation provided).			

			MCPS		High School Cre Weighted	edits	1	Graduation Requirement
MENTAL HEAL	TH ASSIST	TING CAREERS	Course Code	83320	Credit Type			CTE Credential Tests(s) May Be Required
Grade Level	12	Prerequisite(s)					u	-
	-				discussed in this co stress reduction ski			
		0.1	ot currently	offered due				

DE EMERGE		MEDICA	\L	MCPS Course	DE8333	High School C Weighted	redits	2	Graduation Requirement		
TECHNICIAN	/ /			Code		Credit Type	CTE		CTE Credential		
Dual Enrolled	V	■ NE	EW RIVER nmunity College	NRCC Course Code(s)	EMS 112, EMS 113 & EMS 120	College Credits			Tests(s) May Be Required		
Grade Level		11-12 Prerequisite(s) Introduction to Health and Medical Sciences (Recommended)									
students focus	on t d, ca rk ea	he role and rdiopulmor ducation is	d responsibilities o nary resuscitation,	f emergenc ascetic tec	bi for EMS 112, EI y rescue workers, hnique, and relate rescue squads an	basic medical to	erminology, and vsiology, and dis	d hea sease	Ith care skills that knowledge.		
EMERGENCY MEDICAL TECHNICIAN I		83330									
AHS BHS CHS EMHS Not currently offered due to multiple factors, including the staff, and/or student interest, availability of certified staff, and/or students interested in this course should see their schools.							, and/or curre				

			MCPS Course Code	83360	High School Credits Weighted			Graduation Requirement
EMERGENCY N	IEDICAL F	RESPONDER			Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	11-12	Prerequisite(s)	Introducti	on to Health and	l Medical Science	?S		
Course Description while awaiting add and responsibilitie the pre-hospital se	ditional em s of the EM	ergency medical se	ervices (EMS	S) resources. Area	as of study includ	de an introducti	on to	EMS systems, roles
AHS BHS CHS		historical stude	nt interest	y offered due t t, availability o d in this course	f certified staff	, and/or curre	nt re	

DE MEDICA	DE MEDICAL TERMINOLOGY			MCPS Course	DE8383	High School C Weighted	redits	1	Graduation Requirement
				Code		Credit Type	CTE		CTE Credential
Dual Enrolled	~	NE Com Co	NEW RIVER		HIM 101 & HIM 103	College Credi	ts	6	Tests(s) May Be Required
Grade Level		11-12	Prerequisite(s)	Introduction to Health and Medical Sciences (Recommended) *					

Course Description: This course is based on the NRCC syllabus for Medical Terminology I & II. To meet NRCC requirements, students will learn medical terms in an organized and systematic way. Designed to help the student learn the language of healthcare, we begin with each body system's anatomy and physiology, and process through pathology, diagnostic procedures, therapeutic interventions, and finally pharmacology (drugs). Students must complete the HIM 101 portion of this course with a D or better in order to advance to the HIM 103 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 <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

MEDICAL TERMINOL	OGY	83830	This course may be taken by students who are not eligible to take a dual enrolled course
AHS	•		
BHS	•		
CHS	•		
EMHS	•		

DE INTRODUCTION TO			MCPS Course	DE98261	High School C Weighted	redits	1	Graduation Requirement	
SPORTS MEDICINE / ATHLETIC TRAINING		Code	DL30201	Credit Type	Local Elective		First Aid/		
Dual Enrolled	✓	NE Com	NEW RIVER Community College		Includes HLT 100	College Credit	cs	3	CPR/AED Certification May Be Required
Grade Level		11-12	Prerequisite(s)	S) Pre/Co-requisites: Anatomy & Physiology or Medical Terminology *					logy *

Course Description: Students are provided the basic concepts and skills required for an entry-level position as a sports medicine assistant. It introduces students to topics such as injury prevention, nutrition, first aid/CPR/AED, exercise physiology, and biomechanics. Students study basic human anatomy and physiology, medical terminology, legal and ethical issues in sports medicine, and career preparation. Field experience and travel may be required. This course will satisfy requirements for NRCC's First Aid and Cardiopulmonary Resuscitation (HLT 100) which focuses on the principles and techniques of safety, first aid, and cardiopulmonary resuscitation. Students who satisfactorily complete this course will receive 3 college credits from NRCC for HLT 100.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-10 and 195-197) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

AHS	•
BHS	•
CHS	•
EMHS	•

This course will be offered as a Semester Block Course during the Fall Semester only.

This course may not be offered due to the availability of certified staff.

Students should identify an alternate selection.

				High School C	Credits	2	Graduation		
PHARMACY TECHNICIAN I			MCPS		Weighted			Requirement	
			Course Code	83050	Credit Type	СТЕ		CTE Credential Test(s) May Be	
								Required	
Grade Level	10-12	Prerequisite(s)	Introduc	Introduction to Health & Medical Science or Medical Terminology					

Course Description: This certificate program is designed to provide students with the basic skills and knowledge to begin work 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.**

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

			MCPS		High School C Weighted	redits	2	Graduation Requirement
PHARMACY TECHNICIAN II		Course Code	83060	Credit Type	СТЕ		CTE Credential Test(s) May Be Required	
Grade Level	12	Prerequisite(s)	Pharmac	y Technician 1	_	_		

Course Description: This certificate program is designed to provide students with the basic skills and knowledge to begin work 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.**

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

MEDICAL CODING & BILLING I			MCPS Course 83880 Code	High School Credits Weighted		1	Graduation	
		MCPS					Requirement	
				Credit Type	Credit Type CTE		CTE Credential Test(s) May Be Required	
Grade Level	10-12	Prerequisite(s)			_	_		

Course Description: Students will be introduced to healthcare systems, how to manage an office, and the electronic medical record as it pertains to the field of medical coding and billing. Students will be exposed to the medical terminology used to describe human anatomy and physiology. Students will also be introduced to the field of health informatics.

VDOE Maximum Section Enrollment Applies.

AHS	•
BHS	•
CHS	•
EMHS	•

Medical Coding & Billing I & II will only be offered as semester courses within the same school year. Students will be required to complete both courses in one school year for a total of 3 credits.

MEDICAL CODING & BILLING II				High School C	High School Credits		Graduation	
		MCPS		Weighted			Requirement	
		Course Code	83890	Credit Type	СТЕ		CTE Credential Test(s) May Be Required	
Grade Level	10-12	Prerequisite(s)						

Course Description: Students will be introduced to healthcare systems, how to manage an office, and the electronic medical record as it pertains to the field of medical coding and billing. Students will be exposed to the medical terminology used to describe human anatomy and physiology. Students will also be introduced to the field of health informatics.

VDOE Maximum Section Enrollment Applies.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

Medical Coding & Billing I & II will only be offered as semester courses within the same school year. Students will be required to complete both courses in one school year for a total of 3 credits.

0,							
	205'S ST2			High School C	redits	1	Graduation
	Court Transfer	MCPS		Weighted		V	Requirement
<i>DE CIVIL ENGINEERING</i> & ARCHITECTURE	D Sandar Manufaction	Course Code	DE8430	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Dual Enrolled	$R \cdot I \cdot T$	RIT Course Code(s)	PLTW 101-88	College Credi	ts	3	PROJECT LEAD THE WAY
Grade Level 11-12	Prerequisite(s)		•				

Course Description: In this specialization course for Project Lead the Way (PLTW) students collaborate on both the development of community-based building and design projects and conceptual design for project presentations.

AHS	
BHS	
CHS	
EMILE	

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

DE INTRODUCTION TO			Southor's STEAK A	MCPS		High School Credits Weighted			Graduation Requirement
(Technolog		DESIGN	Z. O. Manufacturi	Course Code	DE8439	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Dual Enrolled	✓		R·I·T	RIT Course Code(s)	PLTW 101-88	College Credi	ts	3	PROJECT LEAD THE WAY
Grade Level	-	9-12	Prerequisite(s)			•			

Course Description: This course is based on the **Rochester Institute of Technology** syllabus for PLTW101-88 Introduction to Engineering Design. In this foundation course in Project Lead the Way (PLTW), students use 3-D computer modeling software as they learn the engineering-design process and solve design problems for which they develop, analyze, and create models of project solutions. This course may carry with it a fee to RIT to receive college credits.

AHS		
BHS		
CHS		
EMHS	•	

			vernor's STEAM			High School C	redits	1	Graduation
DE PRINCIF) FS	OF		MCPS		Weighted		✓	Requirement
ENGINEERI	_	O.	E Manufaction	Course Code	DE8441	Credit Type	СТЕ		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
Grade Level		10-12	Prerequisite(s)						

Course Description: This course is based on the **Rochester Institute of Technology** syllabus for PLTW 102-88 Principals of Engineering. In this Project Lead the Way (PLTW) course, students explore the engineering profession and the fundamental aspects of engineering problem solving. Students study the historical and current impacts of engineering on society, including ethical implications. Mathematical and scientific concepts will be applied to fundamental engineering topics, including mechanics and electrical-circuit theory. This course may carry with it a fee to RIT to receive college credits

AHS	•	
BHS	•	
CHS		
EMHS	•	

DE COMPUTER			Surnor's STEM	MCPS		High School Credits Weighted			Graduation Requirement
INTEGRATE MANUFAC		ING	A Manufacture Manufacture	Course Code	DE8442	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Dual Enrolled	✓		R·I·T	RIT Course Code(s)	PLTW 105-88	College Credi	ts	3	PROJECT LEAD THE WAY
Grade Level	•	10-12	Prerequisite(s)		•	•		•	•

Course Description: This course is based on the **Rochester Institute of Technology** syllabus for PLTW 105-88 Computer Integrated Manufacturing In this specialization course in Project Lead the Way (PLTW), students are taught concepts of robotics and automated manufacturing by creating 3-D designs with computer modeling software and producing computer-controlled models of their designs. This course may carry with it a fee to RIT to receive college credits.

AHS		
BHS	•	
CHS		
EMHS		

DE INTRODUCTION TO ENGINEERING DESIGN		Concernor's STFEW PR	MCPS	DE0E30	High School Credits Weighted		1	Graduation Requirement	
(Drafting I)		DESIGN	E Manufactific	Course Code	DE8530	Credit Type	СТЕ		CTE Credential
Dual Enrolled	✓		R·I·T	RIT Course Code(s)	PLTW 101-88	College Credi	ts	3	Tests(s) May Be Required
Grade Level		9-10	Prerequisite(s)						

Course Description: This course is based on the **Rochester Institute of Technology** syllabus for PLTW 101-88 Introduction to Engineering Design. To meet RIT requirements, students will learn The Universal Language of Industry. They learn to draw using the basic concepts of engineering drawing, such as line weights, measurements, geometric constructions, and orthographic projection. Drawings are initially made using standard board drafting equipment. Students will also learn to use a parametric 3D modeling program to create solid models of various project. Students will use computer software to produce, analyze and evaluate models of project solutions. This course may carry with it a fee to RIT.

AHS		
BHS	•	
CHS		
EMHS		

DE ENGINEERING DESIGN			N Schemor's STEM	MCPS	DE8531	High School Credits Weighted		2	Graduation Requirement
GRAPHICS (Drafting II)		Regiment Manufactified	Course Code	Credit Type		CTE		CTE Credential	
Dual Enrolled	✓	■ None	EW RIVER	NRCC Course Code(s)	CAD 151	College Credi	ts	3	Tests(s) May Be Required
Grade Level		11-12	Prerequisite(s)	(s) Introduction to Engineering Design (Drafting 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 <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

AHS		
BHS	•	
CHS		
EMHS		

DE CIVIL ENGINEERING & ARCHITECTURAL DESIGN GRAPHICS (Drafting III)			MCPS	DE8532	High School Credits Weighted			Graduation Requirement
			Course Code		Credit Type	CTE		CTE Credential
Dual Enrolled	✓	NEW RIVER Course Code(s) Community College Code(s) CAD 111 College Credits		3	Tests(s) May Be Required			
Grade Level 11-12 Prerequisite(s)			Engineering Design Graphics (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 <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

AHS		
BHS	•	
CHS		
EMHS		

		orly Sta			High School Credits			Graduation
TECHNICAL DRAWING & DESIGN		S Manufacture	MCPS Course Code	84350	Weighted			Requirement
					Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	9-12	Prerequisite(s)						

Course Description: Basic Technical drawing is an introductory drafting course that provides students the opportunity to develop the skills of the graphic language of technical design and illustration used in the industries of engineering, architecture, drafting and design.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

DE ENGINEERING			Coremor's STEM	MCPS	rse DE8436	High School Credits Weighted			Graduation Requirement
DRAWING & DESIGN		E CO STANDARD OF THE STANDARD	Course Code	Credit Type		СТЕ		CTE Credential	
Dual Enrolled	✓	■ NEW RIVER Community College		NRCC Course Code(s)	CAD 111	College Credi	:s	3	Tests(s) May Be Required
Grade Level 10-12 Prerequisite(s)			Technical Drawing and Design *						

Course Description: This course is based on the VCCS syllabus for CAD 111 Technical Drafting I. To meet NRCC requirements, students will learn various computer aided drafting and design (CADD) software applications to prepare graphic illustrations for practical solutions to various design problems.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

ENGINEERING DRAWING & 84 DESIGN		84360	This course may be taken by students who are not eligible to take a dual enrolled course						
AHS	•	Only the 8	Only the 84360 course is offered at AHS (NOT DE)						
BHS									
CHS	•	Only the I	Only the DE8436 course is offered at CHS. At CHS, this course is dual enrolled with CAD 151.						
EMHS	•	Only the 8	Only the 84360 course is offered at EMHS (NOT DE)						

DE ARCHITECTURAL DRAWING & DESIGN			Coremor's STEM P	MCPS	DE8437	High School Credits Weighted			Graduation Requirement
			THE ON MADURATION	Course Code		Credit Type	CTE		CTE Credential
Dual Enrolled	✓	Ne Con Co	■ NEW RIVER Community College		CAD 151	College Credi	ts	3	Tests(s) May Be Required
Grade Level		10-12	Prerequisite(s)	requisite(s) Technical Drawing and Design *					

Course Description: This course is based on the NRCC syllabus for CAD 151 Engineering Drawing Fundamentals. To meet NRCC requirements, students will be introduced to the principles of architectural design and drafting, including conceptual building and space planning, detailed working drawings, construction techniques and specifications of materials.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

ARCHITECT DRAWING & DESIGN									
AHS	•	Only the 8	34370 course is offered at AHS (NOT DE)						
BHS	•	Only the I	Only the DE8437 course is offered at BHS						
CHS	•	Only the I	Only the DE8437 course is offered at CHS. At CHS, this course is dual enrolled with ARC 121.						
EMHS									

DE ADVANCED			ernor's STEA		DE8438	High School Credits			Graduation
				MCPS		Weighted		✓	Requirement
DRAWING & DESIGN		REO STATE OF Manufactures	Course Code	Credit Type		СТЕ		CTE Credential	
Dual Enrolled	✓	None Con Con	EW RIVER	NRCC Course Code(s)	CAD 152	College Credits Tests(s) Ma Required			Tests(s) May Be Required
Grade Level 11-12 Prerequisite(s) Architectural Drawing and Design or Engineering Drawing & Design *						esign *			

Course Description: This course is based on the NRCC syllabus for CAD 152 Engineering Drawing Fundamentals II. To meet NRCC requirements, students will increase their understanding of drawing and design techniques learned in the prerequisite courses. Students will research design-related fields while identifying the role of advanced design processes in industries such as manufacturing and construction.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

ADVANCE DRAWING & DESIGN		84380	This course may be taken by students who are not eligible to take a dual enrolled course						
AHS	•								
BHS	•	At BHS, st	At BHS, students must complete DE8530, DE8531, and DE 8532 before taking this course						
CHS	•	-	Only the DE8438 course is offered at CHS. At CHS, students must take DE8436 and DE8437 before taking this course						
EMHS									

				MCPS		High School C	redits	1	Graduation
DE INTRODUCTION TO DRONES				DE8910	Weighted		✓	Requirement	
DE INTRODUCTION TO DRONES		DE0310		Credit Type	СТЕ		SOL Test(s) Required		
Dual Enrolled	✓		NEW RIVER		UMS 107	College Credi	ts	3	CTE Credential Test(s) May Be Required
Grade Level 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 <u>pages 9-10</u> and <u>195-197</u>) 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	•		

DE DRONES II			MCPS	DE8736	High School Credits Weighted			Graduation Requirement	
			Course DE Code	DE0/30	Credit Type	СТЕ	•	SOL Test(s) Required	
Dual Enrolled	√	■ NEW RIVER Community College		NRCC Course Code(s)	UMS 177	College Credit	ts	3	CTE Credential Test(s) May Be Required
Grade Level		11-12	Prerequisite(s)	uisite(s) DE Introduction to Drones *					

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 <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

INTRODUC TO DRONE	_	87350	This course may be taken by students who are not eligible to take a dual enrolled course
AHS			
BHS	•		
CHS	•		
EMHS			

Trade & Industry

DE WELDING I			Samor's STEAT		DE0010	High School C Weighted	redits	1	Graduation Requirement CTE Credential
		2 O Sandard Manufacture		Course Code	DE8019	Credit Type	СТЕ		
Dual Enrolled	✓	NE Com Co	NEW RIVER		WEL 100	College Credit	ts	3	Test(s) May Be Required
Grade Level 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 9-10 and 195-197) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

WELDING I		80190	This course may be taken by students who are not eligible to take a dual enrolled course
AHS	•		
BHS	•		
CHS	•		
EMHS	•	This cours	e requires students to attend CHS for at least a part of the school day (transportation provided).

			High School Cred	dits	1	Graduation
AGRICULTURAL FABRICATIONS &	MCPS		Weighted			Requirement
EMERGING TECHNOLOGIES	Course Code	80191	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Level 10-12 Prerequisite(s)						
Course Description: In this course, students we metalworking processes, for agricultural applination within the field of agriculture. Leadership and WDOE Maximum Section Enrollment Applies.	cations. This c	ourse will also	include the investig	0		0,
DOL Maximum Scotion Emoninent Applies.						
	Not currently	offered due	to multiple factors	s, including		
AHS			to multiple factors of certified staff, a	, ,	nt re	esources.

DE WELDING II			Samor's STREAM		DE8095	High School Credits Weighted			Graduation Requirement
		Z O NAME OF THE PARTY OF THE PA		Course Code		Credit Type	СТЕ		CTE Credential
Dual Enrolled	✓	Ne Con Con Con	NEW RIVER		WEL 123	College Credit	ts	4	Test(s) May Be Required
Grade Level 11-12 Prerequisite(s)			DE Weldir	ng I *			•	•	

Course Description: This course is based on the NRCC syllabus for WEL 123Shielded Metal Arc Welding, Basic. To meet NRCC requirements, this course is a continuation of Welding I and will further develop the student welding skills.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

VDOE Maximum Section Enrollment Applies.

WELDING II		80950 This course may be taken by students who are not eligible to take a dual enro	lled course
AHS	•		
BHS	•		
CHS	•		
EMHS	•	his course requires students to attend CHS for at least a part of the school day (transpo	tation provided).

DE WELDING III		Sourmor's STEAM	MCPS		High School C Weighted	redits	1	Graduation Requirement	
		E O S S S S S S S S S S S S S S S S S S		Course Code	DE8096	Credit Type	СТЕ		CTE Credential
Dual Enrolled	✓	□ None Con	NEW RIVER Community College		WEL 160			Test(s) May Be Required	
Grade Level		11-12	Prerequisite(s)	DE Weldin	g II *	•		1	1

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 <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

WELDING III 809		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 Credits Graduation Requirement **MCPS** Weighted **MANUFACTURING** 84250 Course **CTE Credential** SYSTEMS I Code **Credit Type** CTE Tests(s) May Be Required **Grade Level** 9-12 Prerequisite(s)

Course Description: This course provides an orientation to careers in various fields of manufacturing. Emphasis will be placed on manufacturing systems, safety, materials, production, business concepts, and the manufacturing process. Students participate in individual and team activities to create products that demonstrate critical elements of manufacturing. **84210 and 84250 constitute a CTE completer sequence. VDOE Maximum Section Enrollment Applies.**

AHS		
BHS	•	
CHS		
EMHS	•	

MANUFACTURING		Guernor's STEM	MCPS		High School C Weighted	redits	1	Graduation Requirement	
SYSTEMS II	NO	E O S	Course Code	84270	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required	
Grade Level	11-12	Prerequisite(s)) Manufacturing Systems I						
Carrage Danaminstian	. Children	a alassadas asa ta alas	a Albania al anna		at a second tax a second		£	A Alivitia	

Course Description: Students develop an in depth understanding of automation and its applications in manufacturing. Activities center on flexible manufacturing processes and computer integrated manufacturing (CIM). Students work in teams to solve complex interdisciplinary problems that stem from the major systems in automated manufacturing.

VDOE Maximum Section Enrollment Applies.

AHS		
BHS	•	
CHS		
EMHS		

					High School C	redits	1	Graduation
MATERIALS & PROCESSES TECHNOLOGY		C SCHOOL STATE	MCPS		Weighted			Requirement
		E Manufactille	Course	84330	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	9-10	Prerequisite(s)						

Course Description: Students focus on industrial/technical materials and processes as they fabricate usable products and conduct experiments. Learning experiences include career analysis as well as the use of tools and equipment related to analysis, testing, and processing of metals, plastics, woods, ceramics, and composite materials. This single-period laboratory course is recommended for students interested in technical careers and others wishing to improve their consumer knowledge and technological literacy. **VDOE Maximum Section Enrollment Applies.**

AHS	•	
BHS	•	
CHS		
EMHS	•	

CONSTRUCTION	.T	Schemor's STEM	MCPS Course Code	High School Credits Weighted			Graduation Requirement	
CONSTRUCTION TECHNOLOGY	N	NEW Manufaction		84310	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	9-12	Prerequisite(s)						
Course Description: Students design, build and test scale model structures. They also work with projects that help them understand the jobs of architects, carpenters, electricians, plumbers, surveyors, contractors, masons, and design engineers, as well as explore a variety of other construction career. VDOE Maximum Section Enrollment Applies.								

AHS	•	
BHS	•	
CHS		
EMHS	•	

						ui-l- C-ll-C		2		
			nor's STE			High School Credits			Graduation	1
			Control of the last of the las	MCPS		Weighted			Requirement	
BUILDING TRADES I		DES I	SW STATES	Course Code	85150	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required	4
Grade Leve	el	10-11	Prerequisite(s)							
Course Des	cription	n: Building	Trades I prepares	students to	erect, install, ma	intain, and repa	ir building, and	doth	er structures using	g
materials s	uch as r	netal, wood	d, stone, brick, gla	ss, concrete	e and composition	substances. St	udents focus or	n dev	eloping skills in	
core safety	in the r	masonry, ca	rpentry, electricit	y, and plum	nbing professions.	VDOE Maximu	ım Section Enr	ollme	ent Applies	
AHS			Not currently offered due to multiple factors, including							
BHS										
CHS		historical student interest, availability of certified staff, and/or current resources.								
EMHS		Students interested in this course should see their school counselor.					or.			

						High School C	redits	2	Graduation
BUILDING TRADES II			Secretary 18	MCPS		Weighted			Requirement
		DES II	S II	Course Code	85160	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level		10-11	Prerequisite(s)						
Course Desci	iption	: Building	Trades II continue.	s to prepare	students to ere	ct, install, mainta	in, and repair	buildi	ing, and other
structures us	ing ma	aterials suc	ch as metal, wood,	stone, brick	k, glass, concrete	and composition	substances. S	tudei	nts focus on
developing si	kills in	core safety	y in the masonry, c	arpentry, e	lectricity, and plu	umbing profession	ns. NOTE: Co-	-oper	ative education is
available. VI	OOE M	laximum S	ection Enrollment	Applies.					
AHS			N	at currentl	v offered due t	o multiple facto	ors including	,	
BHS									ocourcoc
CHS			historical stude						
		Students interested in this course should see their school counselor.							

		onor's STro			High School C	redits	1	Graduation	
			MCPS		Weighted			Requirement	
CARPENTRY I	O D		Course 86010 Code		Credit Type CTE			CTE Credential Tests(s) May Be Required	
Grade Level	9-12	Prerequisite(s)							

Course Description: Carpentry I is the building block for achieving high-level construction industry skills that can result in an exciting and lucrative career. With an emphasis on safety, students are taught to use hand and power tools, cut stock, apply construction mathematics, and interpret blueprints. Students will become proficient in identifying types of residential construction components to form foundations and frame walls, floors, ceilings, roofs, doors, and windows. All students will obtain the required OSHA 10 safety credential. **VDOE Maximum Section Enrollment Applies.**

AHS		
BHS	•	
CHS	•	
EMHS	•	

		oper's Stra			High School C	redits	2	Graduation
			MCPS		Weighted			Requirement
CARPENTRY II		A Manuscript	Course Code	86020	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	9-12	Prerequisite(s)	Carpentry	I				

Course Description: Carpentry II leads to successful transition into postsecondary education for careers in carpentry and related fields, such as construction management, architecture, and others. Students are taught the safe use of hand and power tools common to the industry to complement their OSHA 10 safety credential earned in Carpentry I. Students will become proficient in assembling and installing various types of residential construction components that are current with industry standards, including rigging and job-estimating procedures, forming foundations, framing floors, walls, ceiling, roofs, trusses, roofing materials, stairs, exterior doors and windows, decks, and porches. Successfully passing this course leads to CTE program completion.

VDOE Maximum Section Enrollment Applies.

AHS		
BHS	•	
CHS	•	
EMHS	•	

		onor's Syr			High School C	Credits	2	Graduation
			MCPS		Weighted			Requirement
CARPENTRY III		R. O. S.	Course Code	86030	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	10-12	Prerequisite(s)	Carpentry II					

Course Description: Carpentry III is an advanced course that allows students to gain in-depth knowledge and hands-on experience in construction industry skills. Work-based learning methods of instruction for this course would provide the student with practical, on-the-job experience in addition to what he or she has already mastered in Carpentry I and II. Additional exploration of the carpentry profession and postsecondary options for continuing education and professional opportunities are also emphasized.

AHS		
BHS	•	
CHS	•	
EMHS		

CABINET MAKING I		mor's STE			High School C	Credits	1	Graduation
					Weighted			Requirement
		REAL MADULE SE	Course Code	86040	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Level	9-12	Prerequisite(s)						

Course Description: Students learn workshop and tool safety and employability skills as they practice reading plans; estimating and selecting materials; cutting and shaping stock; assembling, fastening, and installing components; and finishing surfaces. The technical, problem-solving, leadership, and creative skills learned in Cabinetmaking can be applied in industries well beyond construction trades and professions and can prepare the student for lifelong learning and success.

VDOE Maximum Section Enrollment Applies.

AHS		
BHS	•	
CHS		
EMHS	•	

		Covernor's STEM	MCPS		High School C	credits	2	Graduation Requirement
	_		_		weignted	ı		Requirement
CABINET MAKING II		Z. D. Manuagus de la companya de la	Course Code	86051	Credit Type	CTE		CTE Credential Tests(s) May Be Required
Grade Level	9-12	Prerequisite(s)	Cabinet M	laking I				

Course Description: Students continue to learn workshop and tool safety and enhance their employability skills as they interpret plans; estimate and select materials; cut and shape stock; assemble, fasten, and install components; install interior finishes; apply wood veneers and plastic laminates; finish surfaces; and transport and install cabinets. The technical, problem-solving, leadership, and creative skills learned in Cabinetmaking can be applied in industries well beyond construction trades and professions and can prepare the student for lifelong learning and success. **VDOE Maximum Section Enrollment Applies.**

AHS		
BHS		
CHS		
EMHS	•	

		mor's STE			High School Credits			Graduation
TECHNOLOGY (OF	Secretary Secret	MCPS		Weighted			Requirement
ROBOTIC DESIGN (ROBOTICS I)		REAL ON MANUSCRIPTION OF THE PROPERTY OF THE P	Course Code	84210	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	9-11	Prerequisite(s)						

Course Description: Students engage in the study of computers and microprocessors and their applications to manufacturing, transportation, and communication systems. Topics include computer equipment and operating systems, robotics, programming, control systems, and social/cultural impact of these technologies. Problem-solving activities challenge students to design, program, and interface devices with computer systems. Learning activities include robotics, computer-aided design, computer-aided manufacturing and design, and control of electromechanical devices. The content of this CTE / Technology Education course is the same as the local elective course 98281. VDOE Maximum Section Enrollment Applies.

Robotics I		98281	This course can be taught as a local elective.
AHS	•		
BHS	•		
CHS	•		
EMHS	•		

		mor's STrain			High School C	Credits	1	Graduation
ENGINEERING			MCPS		Weighted			Requirement
EXPLORATIONS (ROBOTICS II)		THE MANUSCRIPT	Course Code	84500	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	9-12	Prerequisite(s)	Technology of Robotics Design I (Robotics I)					

Course Description: In Engineering Explorations I, students examine technology and engineering fundamentals in relation to solving real-world problems. Students investigate engineering history, including major engineering achievements, and they examine the principle engineering specialty fields and their related careers. Students practice engineering fundamentals, using mathematical and scientific concepts, and they apply the engineering design process through participation in hands-on engineering projects. Students communicate project-related information through team-based presentations, proposals, and technical reports. **The content of this CTE / Technology Education course is the same as the local elective course 98282.**

VDOE Maximum Section Enrollment Applies.

Robotics II 98282			This course can be taught as a local elective.
AHS	•		
BHS	•		
CHS	•		
EMHS	•		

ENGINEERING STUDIES		Cournor's STEAM	MCPS		High School C Weighted	redits	1	Graduation Requirement
(ROBOTICS III)	JI ODIL.	Z. Q S. S. S. S. S. S. S. S. S. S. S. S. S.	Course Code	84910	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	11-12	Prerequisite(s)	Fngineerin	ng Explorations (Re	nhotics II)			

Course Description: Designed for students who intend to pursue engineering studies in college, Engineering Studies prepares students by emphasizing integration of mathematics, science, and English concepts and skills into engineering problems in a curriculum demanding rigorous study habits and other college-level skills. Students are encouraged to become routinely inquisitive through brainstorming and prototyping. Students practice basic engineering skills and communication of technical information while applying the engineering design process to complete an engineering project. The content of this CTE / Technology Education course is the same as the local elective course 98283. VDOE Maximum Section Enrollment Applies.

Robotics III 9828		98283	This course can be taught as a local elective.
AHS	•		
BHS	•		
CHS	•		
EMHS	•		

								Table of Conte	nts
		or's Cr			High School C	redits	1	Graduation	
		E Coternor 3 3 PENT	MCPS		Weighted			Requirement	
ROBOTICS EXPL	ERIENCE I	NACTOR AND ADDRESS OF THE PARTY	Course	98281	31101			CTE Credential	<u>. </u>
			Code		Credit Type	Elective		Tests(s) May Bo	
		nced Manufactu			or care rype	2,000,00		Required	
Grade Level		Prerequisite(s)							
Course Description	: Students		dv of comp	uters and micro	processors and th	eir applications	to m	nanufacturina.	
transportation, an									,
control systems, ai									
and interface device									,
manufacturing and			_				,		
VDOE Maximum S									
AHS				l. offered due	to multiple fort	ovo in alvedina			
BHS					to multiple fact				
CHS					of certified staff,				
EMHS		Students	intereste	d in this cours	e should see the	rir school coun	iselo	r.	
<u> </u>	l								
		or's Sm			High School C	redits	1	Graduation	
		Constant of the second	MCPS		Weighted			Requirement	
ROBOTICS EXPL	ERIENCE II	lemy	Course	98282			1	CTE Credential	<u>. </u>
			Code		Credit Type	Elective		Tests(s) May Bo	е
		ed Manufac						Required	
Grade Level		Prerequisite(s)	98281 or	84210					
Course Description	n: In Engine	ering Explorations	s I, student	s examine techn	ology and enginee	ering fundamen	tals	in relation to	
solving real-world	problems. S	tudents investiga	te engineer	ing history, inclu	ıding major engin	eering achiever	nent.	s, and they exam	iine
the principle engin	eering speci	alty fields and the	eir related (careers. Student:	s practice enginee	ring fundamen	tals,	using mathemati	ical
and scientific conc	epts, and th	ey apply the engi	neering des	sign process thro	ugh participation	in hands-on en	gine	ering projects.	
Students communi	cate project	r-related informat	ion throug	h team-based pr	esentations, prop	osals, and tech	nical	reports. The	
content of this CTE	/ Technolo	gy Education cou	irse is the s	ame as course 8	34500.				
VDOE Maximum S	ection Enro	llment Applies.							
AHS		No	nt current	ly offered due	to multiple fact	ors including			
BHS					of certified staff,		nt re	esources	
CHS					e should see the				
EMHS		Stadents	intereste	a III tilis tours	e siloulu see tile	ii scrioor cour	13610	11 •	
		gernor's STEA			High School C	redits	1	Graduation	
			MCPS		Weighted			Requirement	
ROBOTICS EXPL	ERIENCE II		Course	98283				CTE Credential	
		Crimiced Manufactured	Code		Credit Type	Elective		Tests(s) May B	е
		Manur						Required	
Grade Level		Prerequisite(s)	98282 or						
Course Description									
students by empho									
curriculum deman									10
through brainstorr									
while applying the						ent of this CTE	/ Ted	chnology Educati	ion
course is the same	as course 8	4910. VDOE Ma	xımum Sec	tion Enrollment	Applies.				
AHS		No	ot current	ly offered due	to multiple fact	ors, including			
BHS					of certified staff,		nt re	esources.	
CHS					e should see the				
LNILL									

PRECISION MACHINING TECHNOLOGY I



MCPS Course Code

85390

Grade Level 10-11 Prerequisite(s)

Course Description: The student learns basic skills used in machine shop operations. This includes machine shop practices and operation of an engine lathe, milling machines, drill press surface grinders as well as sawing operations. **Completion of 85390 and DE8540 required to receive dual enrolled credit for NRCC's MAC 106. VDOE Maximum Section Enrollment Applies.**

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

DE PRECISION MACHINING TECHNOLOGY II		MCPS Course DE8540 Code		High School Credits Weighted			Graduation Requirement		
			Credit Type	СТЕ		CTE Credential			
Dual Enrolled	✓	■ None	EW RIVER	NRCC Course Code(s)	MAC 106	College Credits		8	Tests(s) May Be Required
Grade Level	•	11-12	Prerequisite(s)	Precision I	Machining 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 <u>pages 9-10</u> and <u>195-197</u>) 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.

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

					High School C Weighted	redits	1	Graduation Requirement
POWER & TRANSPORTATION		Course Code	84450	Credit Type CTE			CTE Credential Tests(s) May Be Required	
Grade Level	9-11	Prerequisite(s)	•					
-		rse explores the wo	*	- /		, ,		nsmitted, ems, research career

Course Description: This course explores the ways that energy is converted to power and the ways power is transmitted, controlled, and used through mechanical, fluid, and electrical devices. Students will explore transportation systems, research career opportunities in the power and transportation fields, conduct experiments, and design and build products.

VDOE Maximum Section Enrollment Applies.

AHS	
BHS	
CHS	
EMHS	

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

					High School C	igh School Credits		Graduation
			MCPS		Weighted			Requirement
AUTO TECH I	A	NATEF	Course Code	85060	Credit Type	dit Type CTE		CTE Credential Tests(s) May Be Required
Grade Level	10	Prerequisite(s)						

Course Description: Auto Technology is a two-year Career and Technical Education Program for students who are beginning their junior year and plan to complete the program as seniors. The purpose of the program is to prepare students with entry level skills in the automotive field or provide them with the background to continue developing more diagnostic skills as a post-secondary school. Students are expected to develop knowledge of automobile components and how systems perform in order to understand the what, how, and why of automotive operations. As students gain knowledge, they are able to practice and demonstrate their knowledge and skills in the auto lab/shop on mock jobs or customer cars. **VDOE Maximum Section Enrollment Applies.**

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

				MCPS Course Code	85070	High School C Weighted	redits	2	Graduation Requirement		
AUTO TEC	ΗII	AS	NATEF			Credit Type	СТЕ		CTE Credential Tests(s) May Be Required		
Grade Level		11	11 Prerequisite(s) Automotive Technology I								
Course Desc	riptio	n: This cou	rse is a continuati	on of 85060	. VDOE Maximi	um Section Enrol	lment Applies.				
AHS	•	This cours	se requires studen	ts to attend	CHS for at least	a part of the sch	ool day (transp	ortat	tion provided).		
BHS	•	This cours	se requires studen	ts to attend	CHS for at least	a part of the sch	ool day (transp	ortat	tion provided).		
CHS	•										
EMHS	•	This course requires students to attend CHS for at least a part of the school day (transportation provided).									

		MCPS High School Credits Weighted		2	Graduation Requirement					
AUTO TE	CH III	A	NATEF	Course Code		Credit Type	СТЕ		CTE Credential Tests(s) May Be Required	
Grade Lev	el	12	Prerequisite(s)	Automotive Technology II						
Course De	scription	n: This cou	rse is a continuation	on of 85070). VDOE Maximu	m Section Enrol	lment Applies.			
AHS	•	This cours	se requires studen	ts to attend	d CHS for at least	a part of the sch	ool day (transp	ortat	tion provided).	
BHS	•	This cours	se requires studen	ts to attend	CHS for at least	a part of the sch	ool day (transp	ortat	tion provided).	
CHS	•									
EMHS	EMHS • This course requires students to attend CHS for at least a part of the school day (transportation provided).								tion provided).	

					High School Cr	edits	1	Graduation
BEAUTY SALON ASSISTANT		MCPS		Weighted			Requirement	
		Course 85460 Code	85460	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required	
Grade Level	10-11	Prerequisite(s)						
Course Description and prepare in a clashampooing and concertificate for entry graduation. This c	inical lab se onditioning y-level emp	tting, learning pra , retailing, invento loyment. This cou	ctical and m	anipulative skills	s. The program e work. Competen	mphasizes safe cy completions	ety ar s allo	nd sanitation, w students a

BHS CHS EMHS

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

			MCPS		High School C Weighted	redits	2	Graduation Requirement
COSMETOLOGY I		Course Code	Course 85270	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required	
Grade Level	10-11	Prerequisite(s)						

Course Description: In this course, students study hair, skin, and nails and their related care. Students are grounded in theory as they prepare to practice procedures in a clinical lab setting or classroom, using manikins for manipulative skill practice. The first-year course emphasizes personal safety, professionalism, and sanitation and disinfection of equipment and facilities. Students develop skills in shampooing and conditioning hair, as well as styling and cutting hair. They are introduced to chemical texture services and develop skills in manicure and pedicure procedures. 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	•	This course requires students to attend BHS for at least a part of the school day (transportation provided).
BHS	•	
CHS	•	
EMHS	•	This course requires students to attend CHS for at least a part of the school day (transportation provided).

				High School Credits			Graduation	
		MCPS		Weighted			Requirement	
COSMETOLOG	ΥII		Course Code	85280	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	10-11	Prerequisite(s)	Cosmetolo	gy I				

Course Description: In this advanced course, students build on their theoretical foundation of general sciences and practices in cosmetology 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 permanent waves, relaxers, soft-curl permanent waves, lightening, and coloring hair. They also develop artistic skills with wigs and hair additions. In addition, students learn to care for skin, hands, and feet, developing experience in providing facials, manicures, pedicures, and nail enhancements. A business management unit focuses on managing the salon. 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	•	This course requires students to attend BHS for at least a part of the school day (transportation provided).
BHS	•	
CHS	•	
EMHS	•	This course requires students to attend CHS for at least a part of the school day (transportation provided).

				High School Credits			Graduation	
		MCPS		Weighted			Requirement	
COSMETOLOG	GY III		Course Code	85290	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	11-12	Prerequisite(s)	Cosmetolo	ogy II				

Course Description: In this advanced course, students build on their theoretical foundation of general sciences and practices in cosmetology 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. In addition, students learn to care for skin, hands, and feet, developing experience in providing facials, manicures, pedicures, and nail enhancements. An advanced business management unit focuses on managing the salon. 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. Competency completion in 85270, 85280, and 85290 are required preparation for the student for the Virginia State Licensing Exam. 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	•	This course requires students to attend BHS for at least a part of the school day (transportation provided).
BHS	•	
CHS	•	
EMHS	•	This course requires students to attend CHS for at least a part of the school day (transportation provided).

						Table of Contents
			Hiah School C	redits	2	Graduation
	MCPS					
BARBFRING I	Course	87400				
	Code		Credit Type	CTF		
			orcant Type	0.12		Required
Grade Level 10-11 Prerequisite(s)						
				imum number (of 84	0 instructional
hours in Barbering or Cosmetology. VDOE M	aximum Sec	tion Enrollment	Applies.			
AHS	Not curre	ntly offered due	to multiple facto	ers including		
BHS historical s					reso	urces.
(HS						u10031
EMHS						
	1					
				redits	2	
	MCPS		Weighted			
BARBERING II	Course	87410		gh School Credits gh School Credits eighted cedit Type CTE CTE CTE CTE CTE CTE CTE CT		
	Code	Weighted Credit Type CTE Tests(s) May Be Required Credit Type CTE Tests(s) May Be Required Credit Type CTE Tests(s) May Be Required Communication, and skin. Students study and prepare in a clinical lab setting, using 2. The program emphasizes sofety and sanitation, communication, and schology, ethics, and professional image. Competency completions prepare in prepare to the plete all three levels to receive a minimum number of 840 instructional a Section Enrollment Applies. Weighted Tests(s) May Be Required Credits Type CTE Tests(s) May Be Required Credit Type CTE Tests(s) May Be Required Credit Type CTE Tests(s) May Be Required Credit Type CTE Tests(s) May Be Required Credit Type CTE Tests(s) May Be Required Credit Type CTE Tests(s) May Be Required Credit Type CTE Tests(s) May Be Required CTE Credential Tests to receive a minimum number of 840 instructional hours in Barbering or pplies. Weighted Tests(s) May Be Required CTE Credential Tests(s) May Be Required CTE Credential Tests(s) May Be Required CTE CTE CTE CTE CTE CTE CTE CTE CTE CTE				
						Required
Grade Level 11-12 Prerequisite(s)						
examination, students must complete all three Cosmetology. VDOE Maximum Section Enrol	ee levels to r	eceive a minim				
AHS	Not curre	ntly offered due	to multiple facto	ers including		
BHS historical s					reso	urces.
CHS						
EMHS						
	1		High School Co	radita	2	Cuadvation
	MCPS			eurts		
BARBERING III	Course	87/120	vveigitted			
DANDERING III	Code	07420	Credit Type	CTF		
	Courc		Credit Type	CIL		
Grade Level 12 Prerequisite(s)	Barbering	//				печанса
1 1			etical foundation	of general sciel	TCPS I	and practices in
must complete all three levels to receive a m						
VDOE Maximum Section Enrollment Applies.				_		
AHS	Mat -	the off ! !	ha monthly to f	un in al. :-!!		
2112	Not curren	tly offered due	to muitiple facto	rs, including		
BHS	da.c.t ! t -	ah amallahili	of certified staff, o			

Students interested in this course should see their school counselor.

CINIEMA & DUC	TOGDAD	шс	MCPS		High School C	redits	1	Graduation Requirement
PRODUCTION I			Course Code	86071	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	9-12	Prerequisite(s)	•					
Course Description today's global, mu a variety of techno professional-grade	ltimedia so logy, inclu	ciety. Students wil ding digital camera	ll be taught in as, design sof	ndustry-relevar ftware, and edit	nt technical skills ting tools to stag	and have the o	ppor ss, pr	tunity to work with int, and present

photography, including (optionally) the fundamentals of film and darkroom development.

AHS

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

BHS

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

EMHS

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

CINEMA & PHOTOGRAPHIC		MCPS	High School C Weighted	redits	2	Graduation Requirement		
	PRODUCTION II		Course Code	86080	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	11-12	Prerequisite(s)	Cinema an	d Photographic	Production I			-
Course Description: The ability to apply principles of visual literacy to produce visual content gives students an advantage in								

Course Description: The ability to apply principles of visual literacy to produce visual content gives students an advantage in today's global, multimedia society. In this final year of Commercial Photography, students are taught industry-relevant technical skills and have the opportunity to work with a variety of technology, including digital cameras, lighting, design software, and editing tools to stage, shoot, process, print, and present professional-grade images while developing a portfolio for a related career. In addition, students (optionally) explore the fundamentals of film and darkroom development.

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

HEATING, VENTILATION,				High School Credits Weighted		1	Graduation		
		MCPS					Requirement		
& AIR CONDITI			Course Code	85030	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required	,
Grade Level	10-11	Prerequisite(s)							

Course Description: this series of courses, you will learn how to design, build and install all of the components necessary to heat and cool a house. In addition, students learn how to diagnose and repair refrigerators, air conditioners, heat pumps and furnaces. This class is great for anyone who wants to work in a hands-on field or for anyone who just wants to know how to do repairs on their own equipment. **May dual enroll with NRCC's AIR 121 and AIR 122 for 7 college credits (DE8503).**

AHS	Mad
BHS	Not
CHS	historical studen Students i
EMHS	Students i

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

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Graduation

High School Credits

HEATING	G VENI	TILATION,		MCPS		Weighted			Requirement			
		-		Course	85040				CTE Credential			
& AIR CC	DNDIII	ONING (H	IVACR) II	Code		Credit Type	CTE		Tests(s) May B	е		
									Required			
Grade Lev	el	11-12	Prerequisite(s)	HVACR I				u u	-			
Course De	scription	: In this se	ries of courses, yo	u will learn	how to design, b	uild and install a	ll of the compo	nents	necessary to he	at		
and cool a	house.	In addition,	students learn ho	w to diagno	ose and repair re	frigerators, air co	onditioners, hed	it pui	mps and furnace.	S.		
This class i	is great f	or anyone	who wants to wor	k in a hands	on field or for a	nyone who just v	vants to know h	iow t	o do repairs on			
their own									,			
AHS												
BHS					Not currently offered due to multiple factors, including							
CHS				ident interest, availability of certified staff, and/or current resources.								
EMHS			Stude	ents interes	ted in this cours	e should see thei	r school counse	lor.				
	_											
						1						
						High School C	redits	1	Graduation			
				MCPS		Weighted			Requirement			
ELECTRIC	ELECTRICITY I			Course	85330				CTE Credential			
				Code		Credit Type	CTE		Tests(s) May B	е		
			1						Required			
Grade Lev		10-11	Prerequisite(s)									
			will learn about e									
			nphasis on the ele									
			ectrical test meter						s and equipmen	t		
	cuitry. N	1ay dual er	nroll with NRCC's I	ELE 130, ELE	127 and SAF 12	27 for 8 college c	redits (DE8533)					
AHS				Not curren	itly offered due	to multiple facto	rs including					
BHS			historical str			of certified staff,		reso	urces			
CHS						e should see thei			arees.			
EMHS			56666			c on our of the	. 3011001 0001130	1011				
						High School C	redits	2	Graduation			
				MCPS		2			Requirement			
ELECTRIC					05040	Weighted						
LLLCTAR	CITY II				85340	vveigntea		l	CTF Credential			
				Course	85340		CTF		CTE Credential	0		
	CITY II				85340	Credit Type	СТЕ		Tests(s) May B	е		
Grado Lou		11 17	Dravaguicita(s)	Course Code			СТЕ			е		
Grade Lev	el	11-12	Prerequisite(s)	Course Code	I	Credit Type		roial	Tests(s) May Bo Required	е		
Course De	el scription	: Students	will learn about e	Course Code Electricity lectricity an	I d the wiring me	Credit Type	idential, comme		Tests(s) May Bo Required			
Course De	el scription	: Students a special en	will learn about e	Course Code Electricity lectricity an	I d the wiring me cts of heating ve	Credit Type thods used in resintilation and air	dential, comme	VAC)	Tests(s) May Be Required and industrial systems. Studen	nts		
Course Dea	el scription ns, with a	: Students a special en	will learn about e	Course Code Electricity lectricity an	I d the wiring me cts of heating ve	Credit Type thods used in resintilation and air	dential, comme	VAC)	Tests(s) May Be Required and industrial systems. Studen	nts		
Course Deapplication will learn he control circ	el scription ns, with a	: Students a special en	will learn about e	Course Code Electricity lectricity an	I d the wiring me cts of heating ve	Credit Type thods used in resintilation and air	dential, comme	VAC)	Tests(s) May Be Required and industrial systems. Studen	nts		
Course Dea application will learn h control circ AHS	el scription ns, with a	: Students a special en	will learn about e	Course Code Electricity lectricity an ctrical aspec s to diagnos	I d the wiring met cts of heating ve se and repair pro	Credit Type thods used in resintilation and air	idential, comme conditioning (H al distribution c	VAC)	Tests(s) May Be Required and industrial systems. Studen	nts		
Course Deapplication will learn he control circ	el scription ns, with a	: Students a special en	will learn about e nphasis on the ele ectrical test meter	Course Code Electricity lectricity an ctrical aspec s to diagnos	I d the wiring met ets of heating ve se and repair pro	Credit Type thods used in resintilation and air oblems in electrical	dential, comme conditioning (H al distribution c	VAC) ircuit	Tests(s) May Be Required and industrial systems. Students and equipment	nts		

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					High School Cre	dits	2	Graduation	
			MCPS		Weighted			Requirement	
ELECTRICITY III			Course Code	85350	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required	
Grade Level	12 Prerequisite(s) Electricity II								
applications, with	a special er	mphasis on the ele	ectrical aspe	cts of heating ve	thods used in reside entilation and air co oblems in electrical	nditioning (H	VAC,) systems. Students	5
AHS			A1 1	.1 66 1.1					
BHS		la intra vincul at		, ,,	to multiple factors				
CHS					of certified staff, ar	-		ources.	
EMHS		Stua	ents interested in this course should see their school counselor.						

ECONOMICS & PERSONAL FINANCE		MCPS	6120V	High School Credits Weighted			Graduation Requirement	✓		
		Course Code		Credit Type	Required Elective		CTE Credential Test(s) May Be Required			
Grade Leve	el	9-12	Prerequisite(s)	None						
decisions	Course Description: Students learn how to navigate the financial decisions they must face and to make informed decisions related to career exploration, budgeting, banking, credit, insurance, spending, taxes, saving, investing, buying/leasing a vehicle, living independently, and inheritance. This course does not provide CTE credit									
AHS	•	vernere, in	ing macpenaen	cry, arra irr	Tierreariee. Tins e	ourse does not	provide CTL cre			
BHS	•									
CHS	•									
EMHS	•									

					High School C	Credits	1	Graduation	
ADVANCED PHYSICAL EDUCATION				MCPS	76400	Weighted			Requirement
ADVAN	CED PH	TSICAL EI	DOCATION	Code Credit Type Flective S		SOL Test(s) Required			
Grade Le	vel	9-12	Prerequisite(s)	ite(s) Preference will be given to 11 th and 12 th graders.					
enjoymer exercise a flexibility	nt and the as well as exercise	e attainme physical st s. This cou	ed physical educat nt/maintenance of rength and condit rse is an elective of for duplicate cre	personal plice ioning, incluice incluing and description in the course and description in the co	nysical activity g Iding weight lifti	oals. Students wing, running, agili	ill participate in ty, core and abo	vario domi	ous forms of nal training, and
AHS	•								
BHS	•				·	·	·		·
CHS	1								

EMHS

DE VIRGINI	DE VIRGINIA TEACHERS					High School C	redits	1	Graduation
FOR TOMORROW /				Course	DE9062	Weighted		✓	Requirement
TEACHER CADET			Code		Credit Type	CTE		CTE Credential	
Dual Enrolled	✓	NE Com Co	NEW RIVER Community College		EDU198	College Credit	ts	3	Tests(s) May Be Required
Grade Level		11-12	Prerequisite(s)	Code(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 <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

VIRGINIA TEACHERS FOR TOMORRO TEACHER O	w/	90620	This course may be taken by students who are not eligible to take a dual enrolled course
AHS	•		
BHS	•		
CHS	•		
EMHS	•	This cours	e requires students to attend CHS for at least a part of the school day (transportation provided).

	RGINIA TEACHERS OMORROW II /				DE9072	High School Credits Weighted			Graduation Requirement
	TEACHER CADET II					Credit Type	СТЕ		CTE Credential
Dual Enrolled	✓	Ni Con	NEW RIVER Community College		EDU200	College Credits		4	Tests(s) May Be Required
Grade Level		11-12	Prerequisite(s)	DE9062 Virginia Teachers for Tomorrow / Teacher Cadet *					

Course Description: Students continue to explore careers in the Education and Training Cluster and pathways. This course provides the opportunity for students to prepare for careers in education as they research postsecondary options, learn about the process of teacher certification in Virginia, and participate in a practicum experience. **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 9-10 and 195-197) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

VIRGINIA TEACHERS FOR TOMORRO TEACHER CADET II		This course may be taken by students who are not eligible to take a dual enrolled course
AHS	•	
BHS	•	
CHS	•	
EMHS	•	his course requires students to attend CHS for at least a part of the school day (transportation provided).

			_	High School C	redits	1	Graduation		
			MCPS		Weighted			Requirement	
ENTREPRENEURSHIP EDUCATION		Course 90	90930	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required		
Grade Lev	el	9-12	Prerequisite(s)						
	-		rse introduces stu and techniques for		_	_	-	_	
AHS	•								
BHS	•								
CHS	•								
EMHS	•			·					

ner County Public					High School C	redits	1	Graduation
		Legist Stranger	MCPS		Weighted			Requirement
INTERNSHIP W	ORKFOCI	Certified Work Ready	Course Code	INTERN	Credit Type	WBL Elective		CTE Credential Tests(s) May Be Required
Grade Level	9-12	Prerequisite(s)						_

Course Description: Internship is a planned, progressive, structured educational activity or program that enables the student to practice and develop career-related skills in a real workplace environment. It provides hands-on experience in a particular industry or occupation related to the student's career interests, abilities, and goals, and allows him or her to document job-related experiences. In addition to placements in the community, MCPS will provide a variety of internships, including internal and external opportunities. Internal opportunities could include buildings & grounds, food services, custodial services, mechanics, librarian intern, teacher interns in elementary classrooms, and information technology. External opportunities could include clinical experiences and co-operative employment with various local businesses.

Students enrolled in this experience will be assigned grades according to the MCPS A-F grading scale.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

		MCPS		High School Credits			Graduation	
				Weighted			Requirement	
SERVICE LEARN	IING		Course Code	98280	Credit Type	Local Elective		CTE Credential Tests(s) May Be Required
Grade Level	11-12	Prerequisite(s)						

Course Description: Service Learning encourages students to practice community volunteerism after school, on weekends, and during the school day. The objective is to instill a spirit of community activism and involvement that will extend beyond high school into adult life. The Service Learning course is a program open to Juniors and Seniors interested in helping community agencies or interested in serving as tutors to peers or to younger students in middle school and elementary schools. It is necessary to document a minimum of 150 clock hours combined with the classroom experience to receive a credit. This course may be repeated for credit.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

COOPERATIVE EDUCATION
WORK EXPERIENCE
COURSES
(Program Specific)



MCPS Course Code BUSCO AGRCO MKTCO FCSCO HOCCO TAICO TEDCO

High School C	redits	1	Graduation
Weighted			Requirement
Credit Type	Local Elective		CTE Credential Tests(s) May Be Required

Grade Level 1

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. Courses 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: 36 weeks, minimum of 396 hours on the job

AHS	
BHS	
CHS	
FMHS	

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

			High School C	redits	1	Graduation	
INTRODUCTION TO EDUCATION FOR	MCPS		Weighted			Requirement	
EMPLOYMENT EMPLOYMENT	Course Code	90780	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required	
Grade Level Prerequisite(s)							

Course Description: This course introduces students to the concept of work and the process of making informal career and continuing education choices. These choices are required to successfully transition to the workplace. Students are taught ethical behaviors and career-research, job-acquisition, workplace-communication, self-awareness, self-advocacy, customer-service, and life-skills. This course is designed for students needing workplace readiness skills before entering community-based instruction and/or additional courses within career clusters.

AHS	
BHS	
CHS	
FMHS	

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

					High School C	redits	1	Graduation
		MCPS		Weighted			Requirement	
EDUCATION FOR EMPLOYMENT			Course Code	90850				CTE Credential
				Credit Type	CTE		Tests(s) May Be	
								Required
Grado Loval	0.11	Droroguicito(s)						

Grade Level 9-11 Prerequisite(s)

Course Description: This course teaches students to make informed career and continuing education choices as they transition from school, gain technical skills, and adapt to the workplace. Students are taught ethical behaviors and career-research, jobacquisition, workplace-communication, self- awareness, self-advocacy, customer-service, and life skills.

AHS	
BHS	
CHS	
EMHS	

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

	agnery County Public for				High School C	credits	1	Graduation	
STUDENT RESEARCH PROJECT		The Capt	MCPS		Weighted			Requirement	
		Certified Work fleady	Course Code	98260	Credit Type	Local Elective			
Grade Level	11-12	Prerequisite(s)						•	

Course Description: Students who participate in a research project during their junior or senior year will work closely with a volunteer mentor from MCPS, a local university or industry. The student and mentor will collaboratively design an appropriate research project for the student. During the summer, the student will work informally, on a relaxed schedule, with the mentor. In the fall, the student will start the formal research project committing at least three hours a week to the project. The research will continue throughout the winter and spring, culminating in regional science fair participation and the submission of a paper to the Virginia Junior Academy of Sciences. It is necessary to document a minimum of 150 clock hours to receive a credit for this experience. Students may either have a period during the school day to work on their research project, and/or they may work outside of the school day. Students enrolled in this experience will be assigned grades according to the MCPS A-F grading scale.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

			MCDC		High School C	redits	1	Graduation		
DE RESEARCH I		MCPS	DE9826	Weighted		✓	Requirement			
DE KESEAK	IKCH I		Course Code	DE9820	Cuadit Tura	Local		SOL Test(s)		
			Code		Credit Type	Elective		Required		
Dual		- N.I-	D	NRCC						
Enrolled	✓		W RIVER	Course	SCT 198	College Credit	ts	1		
Elirolled		Con	Community College							
Grade Level		11-12	Prerequisite(s)	See Below *	:					

Course Description: This course is based on the NRCC syllabus for Seminar and Project in Science Technology. To meet NRCC requirements, the completion of a project or research report related to the student's occupational objectives and a study of approaches to the selection and pursuit of career opportunities in the field are required.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see pages 9-10 and 195-197) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

AHS		
BHS	•	Intended for students taking their 1st year of DE Research but not concurrently enrolled in AP Research
CHS		
EMHS		

DE RESEARCH II		MCPS	DE9827	High School Credits Weighted		1	Graduation Requirement			
		Course DE9827	DL3827	Credit Type Local Elective			SOL Test(s) Required			
Dual Enrolled	✓	Ne Con Con Con	EW RIVER	NRCC Course Code(s)	SCT 298	College Credits		1		
Grade Level		11-12	Prerequisite(s)	DE Resear	ch I *	•				

Course Description: This course is based on the NRCC syllabus for Seminar and Project in Science Technology. To meet NRCC requirements, the completion of a project or research report related to the student's occupational objectives and a study of approaches to the selection and pursuit of career opportunities in the field are required.

* In order to enroll in a DE course, students must meet all admission and course placement requirements established by NRCC (see <u>pages 9-10</u> and <u>195-197</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

AHS		
BHS	•	Intended for students taking their 2 nd year of DE Research but not concurrently enrolled in AP Research
CHS		
EMHS		

			MCPS	MCPS I		High School Credits		Graduation	
STUDY HALL			Course	01011	Weighted			Requirement	
			Code		Credit Type	No Credit			
Grade Level	9-12	Prerequisite(s)							

Description: Study Hall is approved at the discretion of the building principal for students who do not wish to take a full course load in order to have a period in which to work on school assignments and/or seek assistance from a teacher with their school work. Students should otherwise be encouraged to take courses that they have not previously taken when such courses are available and fit into their schedule.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

		MCPS		High School Cr	edits	Graduation		
STUDENT AIDE			Course	01010	Weighted		Requirement	
			Code		Credit Type	No Credit		
Grade Level	9-12	Prerequisite(s)						

Description: Student Aide placement is approved at the discretion of the building principal for students who do not wish to take a full course load and who wish to provide assistance to a teacher, the guidance office, the main office, athletic trainer, etc.

Students will NOT receive WBL credit for serving as Student Aides.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

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 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.

	•	•	∧T)	MCPS		High School C	credits	1	Graduation	
AP SEMII	NAR		AP	Course	9099A	Weighted		✓	Requirement	
				Code		Credit Type Elective				
Grade Leve	el	11-12	11-12 Prerequisite(s)							
Course Des	Course Description: This course is a foundational course that engages students in cross-curricular conversations that explore the									
complexitie	complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework,									
students p	ractice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and									
viewing sp	eeches,	broadcasts	, and personal acc	counts; and	experiencing artis	stic works and p	erformances. St	ude	nts learn to	
synthesize	informa	ition from r	multiple sources, o	develop the	ir own perspective	es in research-b	ased written es	says	, and design and	
deliver ora	l and vis	ual present	tations, both indiv	idually and	as part of a team.	. Ultimately, the	e course aims to	equ	ip students with	
the power	to analy	ze and eva	luate information	with accura	acy and precision	in order to craft	t and communic	ate e	evidence-based	
arguments	. There	is an AP Er	nd-of Course Exam	n for this co	urse for students	to take during	the AP Exam ac	lmin	istration windov	N.
AHS										
BHS	•									
CHS			·		_					
FMHS				•						

AP RESE	AP RESEARCH		AP:	MCPS Course		High School C Weighted	redits	1	Graduation Requirement		
				Code		Credit Type	Elective		•		
Grade Lev	el	11-12	Prerequisite(s)	Students	must have succes	sfully completed	the AP Semina	ır coı	ırse.		
question. employing Students e work in a p	In this can be seen that the c	ourse, stud research pr heir skill de o. The cours	•	skills acquir ssing, analyz ment their p n academic	red in the AP Sem zing, and synthesi processes, and cui paper of 4000-50	inar course by u zing information rate the artifact: 1000 words (acco	nderstanding rong as they address of the develop	esear ss a r omen	rch methodology; esearch question. It of their scholarly		
AHS											
	Intended for students taking AP Research but not concurrently enrolled in DE Research										
BHS							·				
BHS CHS						, ,					

DE/AP RESEARCH I		MCPS	DEGGGGA	High School Credits Weighted		1	Graduation Requirement	~		
DE/AP RESI	EAK	RCH I Z L		Course Code	DE9826A	Credit Type	Science (Chemistry)		SOL Test(s) Required	
Dual Enrolled	✓	Ne Com Co	NEW RIVER Community College		SCT 198	College Credi	ts	1		
Grade Level			Prerequisite(s)	See Below	*	•				

Course Description: This course combines 9826A and DE9826

AHS		
BHS	•	Intended for students taking AP Research while concurrently enrolled in their 1st year of DE Research
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 9-10</u> and <u>195-197</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.

DE /AD DEC	- A D	сн п	MCPS	High School Credits Weighted		redits	1	Graduation Requirement	✓
DE/AP RESI	EARG	CH II Z 1	Course Code	DE9827A	Credit Type	Science (Chemistry))	SOL Test(s) Required	
Dual Enrolled	✓	■ NEW RIVER Community College	NRCC Course Code(s)	SCT 298	College Credit	:s	1		
Grade Level		Prerequisite(s)	See Below	/ *					
Course Descri	ptior	n: This course combines 982	6A and DES	9827					
AHS									
BHS	•	Intended for students taking	g AP Resear	rch while concurre	ently enrolled in	their 2 nd year c	of DE	Research	
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 9-10</u> and <u>195-197</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.

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 203-206).

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

CHS EMHS

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	9		MCPS Course Code 15150 High School Credits Weighted Credit Type English Elect		1	Graduation Requirement			
SUPPLEM	/IENTA	L			ve	SOL Test(s) Required			
Grade Leve	el	9	Prerequisite(s)	None					
they study	the nin	th-grade cu ell as hands		ss will emph	asize reading an	d study strategie	es, allowing time	e for	writing skills as sustained silent in- red with English 9
AHS	•								

ENGLISH 10			MCPS Course	15160	High School Credits Weighted		1	Graduation Requirement
SUPPLEMENTA	L			15160	Credit Type	English Elective		SOL Test(s) Required
Grade Level	10	Prerequisite(s)	English 9					
Course Description		•	•	•	•			•

Course Description: This course emphasizes basic reading and writing skills designed to increase student ability as they study the tenth-grade curriculum. Grammar, reading comprehension, vocabulary, and spelling are major class components. The writing process will be emphasized to prepare students for the English 11 writing SOL test. Students will study a variety of literary works.

This course is paired with English 10 in a year-long block format.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

ENGLISH 11			MCPS Course	15157	High School C Weighted	redits	1	Graduation Requirement	
SUPPLEMENTA	L		Code	13137	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Level	11	Prerequisite(s)	English 10 English SC). Recommended)L tests.	for students at	risk of not passi	ng o	ne or both EOC	

Course Description: This course provides students additional time and intervention strategies to develop the reading and writing skills necessary to be successful on the Grade 11 EOC Reading and Writing SOL tests. Grammar, reading comprehension, vocabulary, spelling, and composition are the core components of the course. Students will read fiction, nonfiction, functional and graphic (e.g., maps, charts, tables) texts both in print and online and will develop their skills to compose a persuasive text online. **This course is paired with English 11 in a year-long block format.**

AHS		
BHS	•	
CHS	•	
EMHS	•	

			MCPS		High School C	redits	1	Graduation	
ENGLISH 12			Course	15158	Weighted			Requirement	
SUPPLEMENTA	L		Code	13136	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Level	12	Prerequisite(s)	•	L. Recommended sh SOL tests.	for students wh	no did not pass o	one (or both Grade 11	

Course Description: This course provides students who did not pass one or both Grade 11 EOC English SOL tests focused time and strategies to develop the reading and writing skills necessary to be successful on these tests. Grammar, reading comprehension, vocabulary, spelling, and composition are the core components of the course. Students will read fiction, nonfiction, functional and graphic (e.g., maps, charts, tables) texts both in print and online and will develop their skills to compose a persuasive text online. This course is paired with English 12 in a year-long block format.

AHS		
BHS	•	
CHS	•	
EMHS		

Graduation	1	Credits	High School C		MCPS			
Requirement			Weighted	15151				LITEDACVIADO
SOL Test(s) Required	ve	English Electi	Credit Type	15151	Course Code			LITERACY LAB 9
					None	Prerequisite(s)	9	Grade Level
	ional	ction in foundat	o provide instru	ource designed t			9 • This sou	Grade Level

Course Description: This course is a stand-alone reading course designed to provide instruction in foundational reading skills to support students in their high school courses. Instruction will focus on word recognition skills, phonological awareness, developing reading fluency, and the language comprehension skills of questioning, visualizing, connecting, predicting, summarizing and monitoring understanding.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

			MCPS		High School C	redits	1	Graduation	
LITERACY LAB	10		Course	15152	Weighted			Requirement	
LITERACT LAB	10		Course Code	13132	Credit Type	English Electi	Ve	SOL Test(s)	
			2000		Credit Type	Lingiisii Liccti	VC	Required	
Grade Level	10	Prerequisite(s)	None						

Course Description: This course is a stand-alone reading course designed to provide instruction in foundational reading skills to support students in their high school courses. Instruction will focus on word recognition skills, phonological awareness, developing reading fluency, and the language comprehension skills of questioning, visualizing, connecting, predicting, summarizing and monitoring understanding.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

				MACRO		High School C	redits	1	Graduation	
LITERACY	/ I A R 1	1		MCPS Course	15155	Weighted			Requirement	
LITERAC	I LAD J	.1		Code	13133	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Leve	el	11	Prerequisite(s)	None		•			-	
support stu	udents i ency, ar	n their higl nd the lang	urse is a stand-alon n school courses. I guage comprehensi	nstruction w	vill focus on wor	d recognition ski	lls, phonologica	ıl aw	areness, develop	
AHS	• unacis	tarianig.								
BHS	•									
CHS	•									
EMHS	•									
						High School C	radits	1	Graduation	
				MCPS		Weighted	reuits	1	Requirement	
LITERAC	/ LAB 1	12		Course Code	15156	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Leve	el	12	Prerequisite(s)	None		-			-	
support stureading flumonitoring	udents i ency, ar	n their higl nd the lang	urse is a stand-alon n school courses. I guage comprehensi	nstruction w	vill focus on wor	d recognition ski	lls, phonologica	ıl aw	areness, develop	
AHS	•									
BHS	•									
CHS EMHS	•									
EIVINS										
				MCPS		High School C Weighted	reaits	1	Graduation Requirement	
LEARNIN	G STR	ATEGIES		Course	98284				SOL Test(s)	+
				Code		Credit Type	Local Electiv	е	Required	
Grade Leve	el		Prerequisite(s)	l		-			,	
personalize an opportu be provide Students e for credit. AHS	ed conte inity to p d the op	ent curricul practice an portunity	ctive course is struc um, and independe nd apply a variety o to explore, practice rse will be assigne	ent learning of f Pathway Lo e, and apply s d grades acc	opportunities. earning Strateg selected curricu cording to the N	The objectives of ies to enhance th lar resources to s	the course/s wi eir academic su trengthen their g scale. This co	II be icces aca	to provide stude s. They also wil demic skills.	
BHS CHS EMHS				udent intere	st, availability o	of certified staff, e should see their	and/or current		ources.	

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		MCDC		High School C	redits	1	Graduation	
FRESHMAN S	ENAINIAR	MCPS Course	98285	Weighted			Requirement	
FRESHIVIAN S	EWIIVAK	Code	90203	Credit Type	Local Electiv	re	SOL Test(s) Required	
Grade Level	Prerequisite(s)							
Course Descripti	on: Freshman Seminar is a cla	ss develope	d for all ninth gra	ders to help pro	vide a positive a	and s	successful transiti	ion
to high school. S	tudents will develop positive co	onnections,	interpersonal ski	lls, team leaders	hip negotiations	s, or	ganization al,	
problem solving	and study skills. The goal of Fr	eshman Sei	minar is to build a	strong foundat	ion for success i	n hig	gh school.	
AHS		Makauma	which offered due	ha marildinla farabi	ve in aludios			
BHS	historical st		ntly offered due					
CHS			est, availability o ted in this course				ources.	
EMHS	Stude	ints interes	ieu iii tiiis tourse	Silvulu see theil	Scriooi counsei	ior.		

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.

				MCPS		High School C	credits	1	Graduation	
ALGEBRA	A I, PAF	RT 1		Course	31330	Weighted			Requirement	
SUPPLEM	/ENTA	L		Code	31333	Credit Type	Math Electiv	Math Elective		
Grade Leve	el	9	Prerequisite(s)							
study of Al prerequisit	gebra. I	Using assess urrent math	sment and intervent concepts and ski	ention strat lls. This co	e students who ne egies, this course urse is paired wit ake Algebra I, Par	will provide ins h Algebra I, Par	truction and tar t 1 in a year-lor	gete	d support on	
AHS	•		ing school year O	•	lgebra I, Part 1 ma ester I course the		•		• ,	
BHS	•		•	•	lgebra I, Part 1 wil llowed by AFDA ir	•	Part 2 as a Sem	este	er I course the	
CHS	•		ing school year O		lgebra I, Part 1 ma ester I course the		•		• ,	
EMHS	•				lgebra I, Part 1 wil llowed by AFDA ir	_	Part 2 as a Sem	este	er I course the	

ALGEBRA I PART 1				MCPS Course	31310	High School C Weighted	redits	1	Graduation Requirement	✓
			Code	31310	Credit Type	Math Electiv	'e	SOL Test(s) Required		
Grade Leve	el	9	Prerequisite(s)							
					•	-			nal time for stude	
• •	course s	sequence.	apply the concepts To earn a Math counce uence.		f Algebra I. Th	e complete Algebr	a I curriculum i	s tau	ight over the spa	ın
of the two-	course s	sequence.	To earn a Math c		f Algebra I. Th	e complete Algebr	a I curriculum i	s tau	ight over the spa	ın
of the two-	course s	sequence.	To earn a Math c		f Algebra I. Th	e complete Algebr	a I curriculum i	s tau	ight over the spa	ın
of the two- Part 2 of th AHS	course s	sequence.	To earn a Math c		f Algebra I. Th	e complete Algebr	a I curriculum i	s tau	ight over the spa	ın

Graduation

Requirement

PART 2			Code	31320	Credit Type	Math		SOL Test(s) Required	✓
Grade Leve	el	Prerequisite(s)							
students to the span of	develo	n: This course is the second of p, understand, and apply the p-course sequence. Algebra I requirements, students mus	concepts a Part 2 inclu	nd skills of Algebi ides a review of t	ra I. The comple he Algebra I Par	ete Algebra I cur t 1 content. To	ricul earr	um is taught ove	
AHS	•	•		•		•			
BHS	•								
CHS	•								
EMHS	•								
GEOMETRY PART 1			MCPS Course Code	31440	High School C Weighted Credit Type	redits Math Electiv	1 e	Graduation Requirement SOL Test(s) Required	
Grade Level Prerequisite(s)								печиней	
to develop, span of the complete F AHS BHS	unders two-co	n: This course is the first of a tand, and apply the concepts urse sequence. To earn a M the two-course sequence.	s and skills o	of Geometry. The	complete Geor	netry curriculun	n is t	aught over the	ents
CHS	•								
EMHS	•				High School C	radits	1	Graduation	
GEOMET	RY		MCPS		High School Credits Weighted			Requirement	✓
PART 2			Course Code	31450	Credit Type	Math		SOL Test(s) Required	✓
Grade Leve	el	Prerequisite(s)							
students to the span of	develo	 This course is the second of th	concepts a y Part 2 inc	nd skills of Geom ludes a review of	etry. The compl the Geometry P	ete Geometry c Part 1 content. T	urric o ea	ulum is taught o rn a Math credit	
AHS	•								
BHS	•								

MCPS

Course

31320

ALGEBRA I PART 2

CHS

EMHS

•

•

High School Credits

Weighted

PROJECT AIM

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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 offsite 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 **NOT** 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 ≤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	CHS	
ENGLISH 10	PA1140	Same as 11400 except the course is taught through Project AIM. One English Credit		
ENGLISH 11	PA1150	Same as 11500 except the course is taught through Project AIM. One English Credit	CHS	
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	AHS	
ALGEBRA II	PA3135	Same as 31350 except the course is taught through Project AIM. One Math Credit		
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 Project AIM. One Biology Credit	BHS	
BIOLOGY II ECOLOGY PA434		Same as 43400 except the course is taught through Project AIM. One Biology Credit		
HEALTH & PHYSICAL EDUCATION 9	PA7300	Same as 73000 except the course is taught through Project AIM. One HPE Credit	Any Teacher Certified in HPE at Student's Home School	
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		
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.

ELINCTIO	FUNCTIONAL ENGLISH 9 Grade Level 9 Prerequisite(s)			MCPS Course	78710	High School Co Weighted	redits	1	Graduation Requirement
FUNCTIO				Code	Credit Type	Elective		SOL Test(s) Required	
Grade Leve				None					
	Course Description: A relevance-based Englise and driven by the Individual Education Plan.				Arts program emp	hasizing essenti	al reading, writ	ting,	and speaking skills
AHS	•								
BHS	•								
CHS	HS •								
EMHS									

ELINICTIO	FUNCTIONAL ENGLISH 10			MCPS	78711	High School C Weighted	redits	1	Graduation Requirement
FUNCTIO	Grade Level 10 Prerequisite(s)				Code	Credit Type	Elective	Elective SOL 1	
Grade Leve									
	-		nce-based English Education Plan.	/Language /	Arts program emp	hasizing essent	ial reading, writ	ting,	and speaking skills
AHS	•								
BHS	•								
CHS	•							•	
EMHS									·

FUNCTI	FUNCTIONAL ENGLISH 11 Grade Level 11 Prerequisite(s)				78712	High School Cr Weighted	edits	1	Graduation Requirement	
FUNCTI					70712	Credit Type	Elective		SOL Test(s) Required	
Grade Lev										
	-		ince-based English Education Plan.	/Language A	rts program em	nphasizing essenti	al reading, writ	ing,	and speaking skill	3
AHS	•									
AHS BHS	•									

			B.4.CDC		High School C	redits	1	Graduation		
ELINICTIO	NIAI E	NGUSH 1	2	MCPS Course	78713	Weighted			Requirement	
FUNCTIO	Grade Level 12 Prerequisite(s)			Code	76/13	Credit Type	Elective		SOL Test(s) Required	
Grade Leve				None						
Course Des	Course Description: A relevance-based English				Arts program emp	hasizing essent	ial reading, writ	ing,	and speaking ski	lls
and driven	by the I	Individual E	ducation Plan.							
AHS	•									
BHS	•							•		•
CHS	CHS •				·		•			
EMHS										

				MCDC		High School Cre	edits	1	Graduation
ELINICTIO	NIAI N	4 A T LL O		MCPS Course	78720	Weighted			Requirement
FUNCTIO	FUNCTIONAL MATH 9		Code	76720	Credit Type	Elective		SOL Test(s) Required	
Grade Leve	Grade Level 9 Prerequisite					·			
Course Des driven by t	-		•	rogram emp	hasizing essen	tial consumer, daily	y living, and fu	ınctio	onal skills and
AHS	•								
BHS	•								
CHS	•								
EMHS									

ELINICTIO	UNCTIONAL MATH 10			MCPS Course	78721	High School Co Weighted	redits	1	Graduation Requirement
FONCTIO	Grade Level 10 Prerequisite(s)				78721	Credit Type	Elective		SOL Test(s) Required
Grade Leve									
Course Des driven by t	-		nce-based Math p ation Plan.	rogram em	phasizing essentia	al consumer, dai	ly living, and fu	ınctio	onal skills and
AHS	•								
BHS	•								
CHS	•								
EMHS									

FUNCTI	ONIAL N	AATII 11		MCPS	78722	High School Cre Weighted	edits	1	Graduation Requirement
FUNCTI	FUNCTIONAL MATH 11 Stade Level 11 Prorequisite(s)			Course Code	76722	Credit Type	Elective		SOL Test(s) Required
Grade Lev	/el	11	Prerequisite(s)	None					
	•	n: A releva ⁄idual Educ	•	rogram empl	nasizing essen	tial consumer, daily	/ living, and fu	nctio	onal skills and
AHS	•								
АПЭ									
BHS	•								
	•								

	UNICTIONAL MATU 43			***		High School C	redits	1	Graduation	
ELINICTIC		// ATLI 12		MCPS Course	78723	Weighted			Requirement	
FONCTIO	FUNCTIONAL MATH 12 Grade Level 12 Prerequisite(s)			Code	76723	Credit Type	Elective		SOL Test(s) Required	
Grade Leve	rade Level 12 Prerequisite(s)									
	Course Description: A relevance-based Math driven by the Individual Education Plan.				phasizing essentia	al consumer, dai	ly living, and fu	nctio	onal skills and	
AHS	•									
BHS	•									
CHS	HS •									
EMHS										

ELINICTIC	UNCTIONAL SCIENCE			MCPS	78220	High School Cre Weighted	edits	1	Graduation Requirement
FONCTIO	Grade Level 9-12 Prerequisite(s)				Course 78220 Code	Credit Type	Elective	SOL Test(s) Required	
Grade Lev									
	-	n: A releva vidual Educ		course emp	hasizing basic c	concepts from Life,	, Physical and	Eartl	h Sciences and
AHS	•								
BHS	•								
CHS	•								
EMHS	MHS •								

ELINICTIO	UNCTIONAL SOCIAL STUDIES			MCPS Course	78230	High School Co Weighted	redits	1	Graduation Requirement
FUNCTIO	Grade Level 9-12 Prerequisite(s)					Credit Type	Elective		SOL Test(s) Required
Grade Leve									
	-		nce-based Social S the Individual Educ			pasic concepts of	citizenship, co	mmı	unity, and
AHS	•								
BHS	•								
CHS	HS •								
EMHS	1HS •								

DEDSON	PERSONAL LIVING & FINANCE Grade Level 9-12 Prerequisite(s)			MCPS Course	31200	High School C Weighted	redits	1	Graduation Requirement
PERSONA				Code	31200	Credit Type	Elective		SOL Test(s) Required
Grade Leve	Grade Level 9-12 Prerequisite(s)			None					
Course De	scriptio	n: This cou	rse is only offered	at Montgo	mery Central				
AHS	•								
BHS	•								
CHS	•								
EMHS	IHS •							•	

			MCPS		High School C	redits	1	Graduation	
ADADTIVE DE	ADAPTIVE PE			77000	Weighted			Requirement	
ADAPTIVE PE	ADAPTIVE PE		Course Code	77000	Credit Type	Elective		SOL Test(s)	
					create type	Licetive		Required	
Grade Level	ade Level 9-12 Prerequisite(s)	Doctor or	Special Education	n Recommendation					

Course Description: This course consists of an individualized program of exercises and activities for those who are recommended for the class by a doctor. Modified sports activities will be presented to improve the student's limiting condition. Emphasis will be placed on weight training, motor skill development, and individual sports participation. Course difficulty ranges from mild to moderate depending on the student's physical challenge.

NOTE: This course will not count as one of the two required HPE credits.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

OCCUPATIONAL WORK & FAMILY STUDIES I / DEVELOPMENT		MCPS Course 78960		High School Credits Weighted			Graduation		
							Requirement		
			Credit Type	Elective		SOL Test(s) Required			
Grade Level	9-12	Prerequisite(s)	None					•	

Course Description: Students will gain knowledge needed to increase independent functioning within the community and the home. Functional math and Language skills, personal financing, job skills, self-care, self-advocacy, and appropriate social skills will be taught through numerous modes of hands-on activities. Leisure skills and family unit responsibilities will also be taught to ensure self-fulfillment and the sense of belonging to community, home, school, and work.

NOT FOR VOCATIONAL CREDIT OR VOCATIONAL TESTING.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

OCCUPATIONAL WORK & FAMILY STUDIES II /			MCPS	MCPS Course 78961 High School Credits Weighted	1	Graduation Requirement				
	DEVELOPMENT			Code		Elective		SOL Test(s) Required		
Grade Leve	el	9-12	Prerequisite(s)	None						
	Course Description: Continuation of 82220. NOT FOR VOCATIONAL CREDIT OR VOCATIONAL TESTING.									
AHS	•									
BHS	•									
CHS	•		·			·	•		`	
EMHS	•									

	COMMUNITY BASED INSTRUCTION					High School C	redits	1	Graduation	
CONANAL				MCPS Course	78580	Weighted			Requirement	
COMMINIC	ade Level 9-12 Prerequisite(surse Description: A course which provides nsportation, libraries, stores, recreation faute: Use 7858A for 2 nd credit attempted in				0 1	Credit Type	Elective		SOL Test(s) Required	
Grade Lev	el	9-12	Prerequisite(s)	None						
transporta	ation, lib	raries, stor	es, recreation facil	ities) and ba	asic vocational a	nd job skills.		1030	Juices (like	
AHS	•									
BHS	•									
CHS	•									
EMHS	•			·		·			·	

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL I		MCPS 57100	57400	High School Credits Weighted		1	Graduation Requirement		
			Credit Type	World Langua	ge	SOL Test(s) Required			
Grade Level	9-12	Prerequisite(s)							

Course Description: This course is designed to teach English to students whose first language is not English. The course focuses on acquiring skills in listening, speaking, reading, and writing and emphasizes vocabulary development and English grammar and word order (syntax). Students practice oral communication and develop listening comprehension by learning sounds, intonation, and rhythm. Students also learn skills to help them adjust to their new situation. Students qualify for this course based on their performance on an English language assessment.

NOTE: This introductory course is designed for students who are beginning to learn to speak English. The 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. Also, for an ESL course to earn a foreign language credit, it must be taught be a certified ESL teacher and be scheduled as a course.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

			MCPS		High School C	Credits	1 Graduation		
ECI II			_	57200	Weighted			Requirement	
ESL II		Course Code	3/200		Morld Langua	~^	SOL Test(s)		
			Code	Credit Type		World Language		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	•	

			MCPS		High School C		1	Graduation	
ECI III			_	F7200	Weighted			Requirement	
ESL III			Course Code	57300	Credit Type	World Langua	ge	SOL Test(s) Required	
Grade Level	9-12	Prerequisite(s)							

Course Description: This course will introduce advanced grammatical structures and vocabulary and encourage creative expression as students both write short compositions and give oral presentations on a variety of topics. Students will continue to read in English, with a focus on American Literature and authentic informational and functional texts. Vocabulary development will also be a key component of this course.

NOTE: Students may be assessed to enter this course without taking ESL I or II. 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 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	•	

			MCPS		High School Credits		1	Graduation	
ECL IV				57310	Weighted			Requirement	
ESL IV			Maria Languaga		SOL Test(s)				
			Code		Credit Type	World Langua	ge	Required	
Grade Level	9-12	Prerequisite(s)							

Course Description: In this course, students will continue to improve their listening, speaking, reading, and writing skills through the study of more complex grammatical structures and vocabulary. Students will read a wide variety of fiction, informational, and functional texts and extend writing skills through composing, revising, and editing formal compositions.

NOTE: 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 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	•	

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. If no changes are requested, please check the column "KEEP the course on my child's high school transcript" for each high school credit course taken in middle school.
- 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.

Middle School in Which Course was Taken: _

Address:Phone:					
quest that the action(s) indicated below Course Name	Year Taken	Final Course Grade	gh school credit OMIT the course from my child's high school	KEEP the course on my child's	n middle school:
		Grade	transcript	high school transcript	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	•			_	Revised 9/1



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 MCP\$ 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:		
Please provide the following info	ormation:		
Official Title of Course (and Cou	rse Number) <u>Previously T</u>	aken:	
School Year Course Taken:	Start Date of Cours	se:	End Date of Course:
Where was this course taken (So	chool Name, External Organ	nization Name)?
Format of Course (i.e. In-Person,	Online):	Grade Ea	rned:
Did you complete the entire cou	rse? If not, please	explain why y	ou did not complete the course:
Please state clearly your reason	for requesting to retake t	his course fo	r Grade Replacement:
Official Title of Course (and Cou	rse Number) <u>Requesting t</u>	to Retake for	Grade Replacement:
By signing below, we understand a Policy 6-6.2. We also acknowledg understanding of the drop period a acknowledges the following:	ge that MCPS cannot guarante	e the availability	of the desired course, the
			riginal course grade removed from on their transcript and calculated
	_	League (VHSL) rules prohibit retaking a course
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 been	n 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 Secondary	/ Education				
Once the established drop window has passed, the original course grade the transcript (the original course must remain listed on the transcript)	e is changed to "NG" on				
Upon completion of the retake course, the retake course and the final let for the retake course will be on student's transcript	tter grade (A-F) earned				

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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 <u>middle school</u> art teacher(s)

Stud	ent Name:	Possible Points	((Poir Circle a nu	nts Awar ımber for		w)		
Stuu	ent Name.	(100)	No	Below Average	Average	Above Average	Excellent		
	Works independently to problem solve	12	0	3	6	9	12		
<u> </u>	Generates own ideas from given project guidelines	8	0	2	4	6	8		
latic	Independently experiments with ideas	7	0	1	3	5	7		
enc	Independently experiments with techniques	7	0	1	3	5	7		
E	Challenges self with goals for class projects	8	0	2	4	6	8		
Middle School Teacher Recommendation	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		
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		
le Sc	Ability to handle criticism of work maturely and productively	6	0	1	2	4	6		
idd	"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.	
Middle School Art Teacher Signature Date	10

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		nts Awar umber for		v)
Stud	ent Name.	(300)	No	Below Average	Average	Above Average	Excellent
	Understanding of and ability to describe contour.	30	0	7	14	21	30
×	Evidence of independent thought and creative ideas	54	0	13	26	39	54
Revie	Understanding of and ability to describe proportion.	27	0	6	13	20	27
ollo	Understanding of and ability to describe perspective.	27	0	6	13	20	27
ortf	Understanding of and ability to work with color.	27	0	6	13	20	27
her	Understanding of and ability to work with value.	27	0	6	13	20	27
Теас	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
High School Teacher Portfolio Review	Understanding of and ability to utilize the principles of design.	21	0	5	10	15	21
Ξ̈́	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	۵.	390 or higher	۵.	on both English and	۵.	ENF 1 or higher
Courses	school GPA of	or		or		or	Writing subject area	or	
(except Math)	2.0 or higher.						tests		

^{*} Cumulative GPA may be weighted or unweighted and may be self-reported.

^{**} A transfer course is any course that a college offers and will transcript in fulfillment 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 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 **Uniform Certificate of General Studies** 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

Transferrable Courses

MCPS Course	MCPS Course Name	NRCC Course	AHS	BHS	CHS	EMHS
DE1600A	DE ENGLISH 11 COLLEGE COMPOSITION	ENG 111 ENG 112	•	•	•	•
DE1600B	DE ENGLISH 12 COLLEGE COMPOSITION	ENG 111 ENG 112		•	•	
DE1601	DE ENGLISH 12	ENG 245 ENG 225	•	•	•	•

DE2951	DE U.S. HISTORY	HIS 121 HIS 122	•	•	•	•
DE2950	DE U.S. GOVERNMENT	PLS 135 PLS 136			•	•
DE4700	DE BIOLOGY	BIO 101 BIO 102			•	•
DE4330	DE HUMAN ANATOMY / PHYSIOLOGY	BIO 141 BIO 142	•	•	•	•
DE43201	DE BIOTECHNOLOGY	BIO 253			•	
DE4410	DE CHEMISTRY	CHM 111 CHM 112		•		
DE4510	DE PHYSICS	PHY 201 PHY 202	•		•	
DE31621	DE PRECALCULUS w/TRIGONOMETRY	MTH 167	•	•	•	•
DE31997	DE APPLIED CALCULUS	MTH 261 MTH 262	•			•
DE31995	DE CALCULUS I	MTH 263	•	•	•	•
DE31996	DE CALCULUS II	MTH 264	•		•	•
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	•	•	•	•
DE2900	DE PSYCHOLOGY	PSY 200		•		
DE6612	DE COMPUTER INFORMATION SYSTEMS	CSC 110	•	•	•	
DE6640V	DE COMPUTER SCIENCE PROGRAMMING 1 VIRTUAL	CSC 221	•	•	•	•
DE6641V	DE COMPUTER SCIENCE PROGRAMMING 2 VIRTUAL	CSC 222	•	•	•	•
DE6642V	DE COMPUTER SCIENCE PROGRAMMING 3 VIRTUAL	CSC 223	•	•	•	•
DE98261	FIRST AID & CPR (Part of DE INTRODUCTION TO SPORTS MEDICINE / ATHLETIC TRAINING)	HLT 100	•	•	•	•

Non-Transferrable Courses

MCPS Course	MCPS Course Name	NRCC Course	AHS	BHS	CHS	EMHS
DE6135	DE BUSINESS MANAGEMENT Note: This course is eligible for transfer but is primarily considered a non-transferable course.	BUS 100		•		
DE8531	DE ENGINEERING DESIGN GRAPHICS (Drafting II)	CAD 151		•		
DE8532	DE CIVIL ENGINEERING & ARCHITECTURAL DESIGN GRAPHICS (Drafting III)	CAD 111		•		
DE8436	DE ENGINEERING DRAWING & DESIGN	CAD 151			•	
DE8437	DE ARCHITECTURAL DRAWING & DESIGN	CAD 151		•		
DE8437	DE ARCHITECTURAL DRAWING & DESIGN	ARC 121			•	
DE8438	DE ADVANCED DRAWING & DESIGN	CAD 152	•	•	•	
DE8285	DE EARLY CHILDHOOD EDUCATION I Note: This course is eligible for transfer but is primarily considered a non-transferable course.	CHD 120		•		
DE8286	DE EARLY CHILDHOOD EDUCATION II Note: This course is eligible for transfer but is primarily considered a non-transferable course.	CHD 118		•		
DE8286	DE EARLY CHILDHOOD EDUCATION II Note: This course is eligible for transfer but is primarily considered a non-transferable course.	CHD 120 CHD 125			•	
DE8383	DE MEDICAL TERMINOLOGY	HIM 101 HIM 103	•	•	•	•
DE6630	DE DESIGN, MULTIMEDIA & WEB TECHNOLOGIES	ITD 110	•	•	•	
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				
DE8130	DE ADVANCED MARKETING Note: This course is eligible for transfer but is primarily considered a non-transferable course	MKT 100		•		
DE8177	DE ADVANCED SPORTS & ENTERTAINMENT MANAGEMENT	MKT 209		•		
DE8125	DE DIGITAL & SOCIAL MEDIA MARKETING	MKT 282		•		
DE8331	DE NURSE AIDE	NUR 27		•	•	

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	•	•	•	•
DE8736	DE DRONES II	UMS 177		•		
DE8019	DE WELDING I	WEL 100	•	•	•	
DE8095	DE WELDING II	WEL 123	•	•	•	
DE8096	DE WELDING III	WEL 160	•	•	•	

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

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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 197-200 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.



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.	✓	
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.

Authorized by:

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

^{**} 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.



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

Attached to this application are the sections of MCPS policy 7-2.4 relevant to "external courses". Please review carefully. Parents/Guardians and students are responsible for meeting all requirements.

Student's Name:	School: Current Grade:
Parent/Guardian Name and Address:	:
	
Phone Number:	Email Address:
Number of Credits from Institution Pr Institution Providing Instruction: Accredited by:	roviding Instruction for Requested Course(s):
Address and Phone # of Institution:	or Course(s): End Date for Course(s):
School Year: Start Date for	or Course(s): End Date for Course(s):
-	vant to take the external course(s) requested, <u>AND</u> indicate if you your MCPS transcript for this/these course(s):
Official Course Description from	n the institution providing instruction MUST be attached.
	y the regulations outlined in MCPS Policy 7-2.4. Failure to abide adlines will result in the negation of this agreement and failure to made by MCPS administration.
Student Signature:	Data:
	Date: Date:
, , , , , , , , , , , , , , , , , , , ,	
School-Level Approvals (Please sign to	o indicate approval):
External Courses Previously Taken:	
School Counselor:	Date:
_	Date:
Approved to take course(s) forApproved to take course; however,	college credit(s) and high school credit(s) high school credit(s) only (as requested) r, does <u>not</u> meet the criteria to be awarded <u>high school</u> credit
Director of Secondary Education:	Date:
After approval, a copy of this applicat	tion has been (please check all that apply):
☐ Placed in student's cumulative file ☐ Provided to parent/guardian ☐ Forwarded to Division Testing Coor ☐ Entered into Power School	

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.

- 4. 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 <u>maximum of two (2) external courses for high school credit in a core curriculum area.</u>
- 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.

<u>Exceptions</u> 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.

<u>Limitations on Total Number of Course Credits Earned Annually in High School</u>

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:		
When do you plan to graduate?		
☐ At the completion of my junior yea☐ At the end of 1 st Semester☐ At the end of Summer School	r*	
*Please note that students intending to gr SOL scores (including Writing) and/or CTE		
Which diploma do you intend to earn	? ☐ Advanced ☐ Standard	
Attach a letter out Be sure to include your post-graduat	lining why you would like to e plans. (e.g. early entrance o	•
-	irement been met? ☐ YES [Requirements (attach additiona	
I have read and understand the above	e requirements for Early Gradu	 ation.
Student Signature:		Date:
Parent/Guardian Signature:		Date:
School-Level Approvals (Please sign to	indicate approval):	
School Counselor:		Date:
School Administrator:		Date:
☐ Approved ☐ Denied – Reason:		
Director of Secondary Education:		Date:
☐ Letter sent to parent/guardian ☐ Copy of form & letter placed in stu		:

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
 - Welding
 - Robotic Systems
- STEM Science and Mathematics
- STEM Engineering
 - o Engineering Design
 - 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 & Construction

nformation Technology

Advanced Manufacturing

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 Fundamentals, DE 6304 Cybersecurity Software Operations, DE 6306 Cybersecurity Software Operations, Advanced, 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
66310 Advanced Design, Multimedia, and Web Technologies, DE

Manufacturing: Precision Machining

85390 Precision Machining, DE 85400 Precision Machining II, DE

Manufacturing: Welding

80190 Welding I, DE 80191 Welding II, DE

Manufacturing: Robotic Systems

84210 Technology of Robotics Design 84250 Manufacturing Systems

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, DE 84370 Architectural Drawing and Design 84380 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 **BOTH** 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>

St	tudents	must se	lect from <u>/</u>	<u>AT LEAST</u>	<u>⁻ 3</u> of tl	he follo	wing op	otions:
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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 VHSI 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 eithe 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 yo	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 Secu Science, Technology, Engineering and M 	•		
Diploma with Some Training	Certification or Associate Degree	College Degree		
 Aquaculture workers Hazardous Materials Removal workers Refuse & Recycling collectors 	Water Treatment OperatorWastewater Management System OperatorGame Warden	ForesterBiological TechnicianPark 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 drawing building structures?

Do you appreciate the pride of building something that will stay?

Do you like working on or operating cars, trucks, or airplanes?

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?

Do you enjoy designing and problem solving?

Do you like working with math and science?

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?		
High School Elective Courses to Consider Taking	 Advanced Acting Advertising Design I, II Architectural Drawing & Design Art I, II, III, IV, AP Art/Music Appreciation, DE Band Ceramics I, II Chorus/Vocal Ensembles Cinema & Photographic Production I, II Computer Information Systems Computer Information Systems, Advanced Creative Writing I, II Design, Multimedia, & Web Technologies Design, Multimedia, & Web Technologies, Advanced Digital Marketing Electricity I, II, III Entrepreneurship Education Fashion Marketing Fashion Marketing, Advanced Film Study Free Shakespeare Graphics Imaging Technology I, II Guitar 	 Interior Design I Introduction to Fashion Careers Introduction to Interactive Programming Introduction to Interior Design Journalism I, II, III Marketing Marketing Management Marketing, Advanced Media Arts I, II, III, IV Music History/Literature Music Theory Musical Theatre Office Administration Percussion Techniques Piano Lab I, II Principles of Business & Marketing Programming, Advanced Robotics I, II, III Speech Fundamentals Sports & Entertainment Marketing Technical Theatre Theatre I, II Word Processing
Related Career Clusters	Information Technology	
Diploma with Some Training	Certification or Associate Degree	College Degree
ArtistMusicianPerformer	 Telecommunications Equipment Installer/Repairer Photographer/Videographer TV/Broadcast Technician Desktop Publisher 	EditorGraphic DesignerNewscaster
Local Employment Projections	11 Annual job openings 5% Growth for New River Region through 2024	





Business Management and Administration

Are you interested in organizational behavior?

Are you interested in how businesses operate?

Have you ever thought of starting your own business?

Do you like working in an office and using computers?

Do you enjoy working with the public?

Do you communicate effectively?

Do you communicate effectively?		
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 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 Administratio	n
Diploma with Some Training	Certification or Associate Degree	College Degree
 Office Clerks Stock Clerks Shipping Clerk	 Office Supervisors Payroll Clerk Bookkeeper Postal Clerk Executive Secretary/Assistant Customer Service Rep 	 Operations Manager Management Analyst Human Resource Manager
Local Employment Projections	519 Annual job openings 5% Growth for New River Region throug	h 2024





	Education and Training	
Are you friendly, outgoing, understanding Are you good at explaining things? Do you enjoy helping others meet their go Do you like working with adults and/or chi	als?	
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 AssistantsLibrary 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 bette Do you like working with money and num 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 AdministraGovernment and Public Administration	
Diploma with Some Training	Certification or Associate Degree	College Degree
Insurance AgentSecretary	Bank TellerLoan ClerkInsurance Claims Associate	Loan OfficerAccountant/AuditorFinancial ManagerPersonal Financial Advisor
Local Employment Projections	98 Annual job openings 8% Growth for New River Region through	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 issues? • Design, Multimedia, & Web Accounting Technologies, Advanced Ecology Accounting, Advanced Bioethics • Entrepreneurship Education • Introduction to Interactive Business Law • Business Management **Programming High School Elective Courses to** • Keyboarding Applications • Civil Engineering & Architecture • Office Administration **Consider Taking** • Computer Information Systems • Computer Information Systems, • Opportunities in Global Trade • Opportunities in Global Trade, Advanced Advanced Cybersecurity Fundamentals • Principles of Business & Marketing • Design, Multimedia, & Web Technologies • Programming, Advanced • Business Management and Administration **Related Career Clusters** Finance **Diploma** Certification **College Degree** with Some Training or Associate Degree • Eligibility Interviewer Court Clerk Legislators • Office Clerk Municipal Clerk **Compliance Officers** 17 Annual job openings **Local Employment Projections** 12% Growth for New River Region through 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 Sports Medicine/Athletic Training I Veterinary Science Virginia Teachers for Tomorrow
Related Career Clusters	Human ServicesScience, Technology, Engineering and N	Mathematics
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	gh 2024





	Hospitality and Tourism	1
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 Culinary Arts 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 probler Do you enjoy providing a service to othe Is it important to you to do something t Are you friendly, outgoing, a good lister High School Elective Courses to Consider Taking	ns? ers? hat helps others?	 Genetics 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
Related Career Clusters	 Entrepreneurship Education Family Relations Education and Training	Virginia Teachers for Tomorrow
Diploma with Some Training	Certification or Associate Degree	College Degree
Personal Care AideChildcare Worker	 Hairdresser Fitness Trainer Massage Therapist	Social WorkerMental Health Counselor
Local Employment Projections	178 Annual job openings 16% Growth for New River Region thro	ugh 2024





Information Technology

Do you like a work environment that is unpredictable and often changing?

Do you like to solve problems and think on your feet?

Are you patient, precise, and attend to detail?

Do you like working with people to solve their computer problems?

Are you curious about how computer games and programs work?

Are you a logical and analytical thinker?

Are you a logical and analytical thinker?		
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 Fundamentals 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	 Science, Technology, Engineering and M Transportation, Distribution and Logistic Arts, Audio/Video Technology and Com 	cs
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 throug	h 2024





Law, Public Safety, Corrections and Security Are you good at working with people in stressful situations? Are you good at controlling your own emotions so that you can help others? Are you a good role model? Bioethics • Information Technology (IT) Biotechnology **Fundamentals** Business Law • Keyboarding Applications • Office Administration • Business Management • Computer Information Systems Psychology **High School Elective Courses to** • Computer Network Software • Psychology, AP **Consider Taking** Operations Psychology/Sociology • Computer Systems Technology I, II • Psychology/Sociology, DE • Cybersecurity Fundamentals Word Processing • Cybersecurity Systems Technology • Entrepreneurship Education

Related Career Clusters	Human ServicesGovernment and Public Administration	
Diploma with Some Training	Certification or Associate Degree	College Degree
Lifeguard	 Correctional Officer/Jailer Police/Sheriff Officer Police Supervisor Security Guard Legal Assistant 	LawyerProbation OfficerDetective/Criminal Investigator
Local Employment Projections	12% Growth for New River Region through 136 Annual job openings	h 2024





	Manufacturing	
Do you understand how things work? Do you like moving or handling material, Do you like working with tools, machiner Do you enjoy seeing the concrete result of	y, and computers? If your work? Applied Physics/Principles of	Design, Multimedia, & Web
High School Elective Courses to Consider Taking	Technology I, II Architectural Drawing & Design Bioethics Biotechnology Building Trades I, II Business Law Business Management Cabinetmaking I, II Carpentry I, II, III Chemistry Civil Engineering & Architecture Computer Information Systems Computer Information Systems, Advanced Computer Integrated Manufacturing Computer Network Software Operations Computer Systems Technology I, II Construction Technology Cybersecurity Fundamentals Cybersecurity Systems Technology Design, Multimedia, & Web Technologies	Technologies, Advanced Drafting I, II, III Drawing & Design, Advanced Electricity I, II, III Engineering Design Graphics Engineering Drawing & Design Entrepreneurship Education Environmental Science, AP HVACR I, II Information Technology (IT) Fundamentals Introduction to Engineering Design Keyboarding Applications Manufacturing Systems I, II Materials & Processes Technology Office Administration Physics Precision Machining Technology I, II Principles of Engineering Robotics I, II, III Technical Drawing & Design Welding I, II Word Processing
Related Career Clusters	Science, Technology, Engineering and Ma	thematics
Diploma with Some Training	Certification or Associate Degree	College Degree
 Industrial Machinery Mechanics Maintenance/Repair Workers Assemblers/Fabricators Machinists Welders Inspectors/Testers/Weighers 	Engineering TechnicianLine SupervisorComputer Repair Technician	 Purchasing Agent Industrial Engineer Operations Manager
Local Employment Projections	490 Annual job openings -1% Growth for New River Region throug	h 2024





Marketing

Do you enjoy providing a service to others?

Can you write a good advertisement?

Do you like helping people find solutio

Do you like helping people find solution Are you good at persuading people to n Are you a creative person?	nake purchases and convincing people to do t	
High School Elective Courses to Consider Taking	 Advertising Design I, II Art I, II, II, IV, AP 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 	 Fashion Marketing, Advanced Graphics Imaging Technology I, II Introduction to Fashion 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 SalespersonRetail Supervisors	Sales Representatives, Wholesale/Manufacturing/TechnicalMarket Research Analyst
Local Employment Projections	5% Growth for New River Region through 571 Annual job openings	2024





Science, Technology, Engineering and Mathematics

Are you good at abstract thinking?

Do you like to explore new ideas and test them methodically?

Do you understand how things work?

Do you enjoy designing and problem solving?

Do you like working with math and science?

Do you like working with math and science	ce:	
High School Elective Courses to Consider Taking Related Career Clusters	 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 Network Software Operations Computer Network Software Operations, Advanced Computer Systems Technology I, II Construction Technology Cybersecurity Fundamentals Cybersecurity Network Software Operations Cybersecurity Network Software Operations Cybersecurity Systems Technology Design, Multimedia & Web Technologies Design, Multimedia & Web Technologies, Advanced Drawing I, II, III Drawing & Design, Advanced Agriculture, Food and Natural Resource Architecture and Construction Manufacturing 	 Electricity I, II, III Engineering Design Graphics Engineering Drawing & Design Entrepreneurship Education Equine Management Floriculture Forestry & Wildlife Genetics 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 Principles of Engineering Programming, Advanced Robotics I, II, III Small Animal Care Small Engine Repair Small Engines Repair, Advanced Technical Drawing & Design Veterinary Science Virginia Teachers for Tomorrow Welding I, II
Diploma with Some Training	Certification or Associate Degree	College Degree
Field Assistant	Lab TechnicianEngineering Technician	Industrial EngineersMechanical EngineersHealth/Environmental Scientist
Local Employment Projections	37 Annual job openings 4% Growth for New River Region through	2024





Transportation, Distribution and Logistics

Do you like working on or operating cars, trucks, or airplanes?

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?

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 NInformation Technology	Mathematics
Dinloma	Certification	
Diploma with Some Training	or Associate Degree	College Degree
•		 College Degree Municipal Planner Transportation Engineer GIS Analyst Pilot



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	Recommended Courses	Recommended Courses	Recommended Courses	Recommended Courses	Recommended Courses
Science	Recommended Courses	Recommended Courses	Recommended Courses	Recommended Courses	Recommended Courses	Recommended Courses
Social Studies	Recommended Courses	Recommended Courses	Recommended Courses	Recommended Courses	Recommended Courses	Recommended Courses
English	Recommended Courses	Recommended Courses	Recommended Courses	Recommended Courses	Recommended Courses	Recommended Courses
Elective	Recommended Courses	Recommended Courses	Recommended Courses	Recommended Courses	Recommended Courses	Recommended Courses
CTE Elective	Recommended Courses	Recommended Courses	Recommended Courses	Recommended Courses	Recommended Courses	Recommended Courses

Careers your student is interested in Your student can identify careers they enjoy by favoriting them on MajorClarity.

 $\textbf{Colleges your student is interested in} \ \textit{Your student can identify postsecondary institutions they are interested in attending by expressing interest on \textit{MajorClarity}.}$

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 Brittany. Everett@doe.virginia.gov, or by telephone at (804) 786-7010.