Montgomery County Public Schools High School Program of Studies









2025-2026







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

. 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.

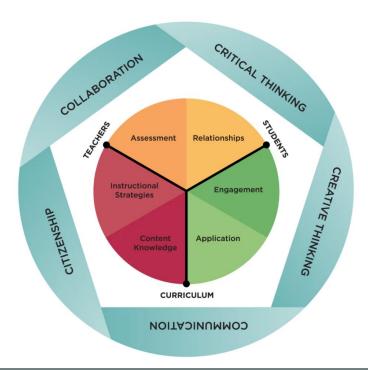
Access

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

TBA, Director of Secondary Education

Anthony Walker, Ed.D, Director of Special Education

Auburn High School

1650 Auburn School Drive

Riner, VA 24149

Phone: (540) 382-5160 **Guidance:** (540) 382-5164 **Principal:** Mr. David Hurd

Christiansburg High School

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

Blacksburg High School

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

Guidance: (540) 951-5715 **Principal:** Mr. Chris Stewart

Eastern Montgomery High School

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

MCPS Curriculum Staff

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

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COURSE SELECTION INFORMATION

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

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

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

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

School counselors are available to assist students in academic planning, and goal setting as well as provide support through their college/career goals. Each student will start high school with an individualized 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 212-228) provide students with an idea of the different types of jobs and careers that are available to them. Montgomery County courses are listed in the column entitled high school courses to consider. If you are interested in a particular career cluster, please consider these recommendations when signing up for classes.

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

- 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. A minimum grade of "C" is required for a dual enrollment course to transfer to a college or university. NRCC CTE dual enrolled course credits earned are applicable to specific curricula and are intended to prepare students for employment in those areas. While some of these courses may be accepted for transfer, no unified policy exists on the transfer of these courses.

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

DUAL ENROLLMENT ELIGIBILITY CRITERIA

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

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

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

DUAL ENROLLMENT PROGRAMS



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

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

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

MCPS DUAL ENROLLMENT POLICIES

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

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

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

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

ADVANCED PLACEMENT COURSES

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

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

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

SUMMER, VIRTUAL, & EXTERNAL COURSES

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

MCPS VIRTUAL SCHOOL PROGRAM

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

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

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

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

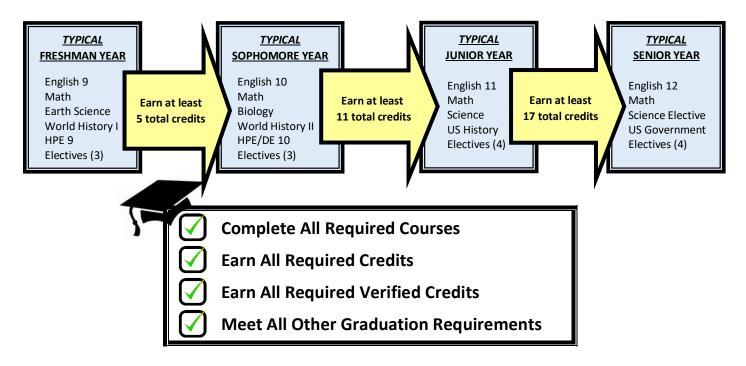


KEY TO ICONS

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

AP ^a	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
E O STANCE	MCPS Governor's STEM Academy
Certified Worksoop	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:

- Achieves a passing score on a corresponding end-of-course SOL test. In accordance with the provisions of the Standards of Quality, students may earn a standard and verified unit of credit for any elective course in which the core academic Standards of Learning course content has been integrated and the student passes the related endof-course SOL test. Such course and test combinations must be approved by the board. Upon waiver of the 140clock-hour requirement according to board guidelines, qualified students who have received a standard unit of credit shall be permitted to sit for the relevant SOL test to earn a verified credit without having to meet the 140clock-hour requirement.
- Achieves a passing score on approved additional or substitute tests as a part of the Virginia Assessment Program.
- 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.

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 two different course selections from among: Algebra I, Geometry, Algebra Functions, and Data Analysis (AFDA), Algebra II, or other mathematics courses approved by the board to satisfy this requirement.
 - o 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.
 - o 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 and
 - (i) pass <u>two (2)</u> examinations or occupational competency assessments in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, trade, or professional association;

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

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

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

Additional Graduation Requirements for Standard Diploma

- Advanced Placement Course, Dual Enrollment Course, Honors Course, or Career and Technical Education
 Credential: Students shall either
 - i. Complete an Advanced Placement, Dual Enrollment, or honors course, or
 - ii. Complete a high-quality work-based learning experience, as defined by the Board, or
 - iii. Earn a career and technical education credential approved by the board, except when a career and technical education credential in a particular subject area is not readily available or appropriate or does not adequately measure student competency, in which case the student shall receive satisfactory competency-based instruction in the subject area to satisfy the standard diploma requirements. The career and technical education credential, when required, could include the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, ASVAB, or the Virginia workplace readiness assessment.
- **Virtual Course:** Students shall successfully complete one virtual course, which may be a non-credit-bearing course or a required or elective credit-bearing course that is offered online.
- Training in emergency first aid, cardiopulmonary resuscitation (CPR), and the use of automated external defibrillators (AED): Students shall be trained in emergency first aid, CPR, and the use of AED, including 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
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.
 - o 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.
 - A fine arts or CTE course used to satisfy the World Language/Fine Arts/CTE graduation requirement for the Standard Diploma may be used to partially satisfy the sequential elective requirement (i.e. this course is permitted to count as one of the two required sequential elective course credits while also being used as one of the required Fine Arts/CTE course credits for the Advanced Studies Diploma.
- Electives: Courses to satisfy this requirement shall include at least two sequential electives.
 - A two-credit course may be used to fulfill this graduation requirement as long as the course is not specifically required for graduation. The content of the two-credit course bust build on itself and create a foundation for further education or training of preparation for employment.

Additional Graduation Requirements for Advanced Studies Diploma

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

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

- **Virtual Course:** Students shall successfully complete one virtual course, which may be a non-credit-bearing course or a required or elective credit-bearing course that is offered online.
- Training in emergency first aid, cardiopulmonary resuscitation (CPR), and the use of automated external defibrillators (AED): Students shall be trained in emergency first aid, CPR, and the use of AED, including 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.

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 207-209 for the criteria to earn this diploma seal.
The MCPS Work Ready Diploma Seal	Designed to promote students gaining work-based learning experiences. The Work Ready Diploma Seal tells employers that a student has the necessary skills needed to be successful in a professional setting. A student who earns the Work Ready Diploma Seal has gained experience in a professional work environment. See page 210 for the criteria to earn this diploma seal.
MCPS Fine Arts Diploma Seal	Recognizes excellence in, and commitment to, the Fine Arts throughout each of the 4 years of high school. See page 211 for the criteria to earn this diploma seal.

Other Recognitions of Academic Excellence

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

Recognition of Graduating Seniors (Based on GPA)

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

Distinguished Scholar:GPA of 4.0 and 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 PUBLIC SCHOOLS COMMON MATH PATHWAYS

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

Pathway 3	
Grade Level	Math Course
8	Math 8
9	Algebra I
10	Geometry
11	Algebra II
12	Adv Algebra with Trig OR DE/AP Precalculus w/ Trig 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/AP Precalculus w/ Trig 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 Level	Math Course					
8	Math 8					
9	Algebra Parts 1 & 2					
10	Geometry or Parts 1 & 2					
11	AFDA ***					
12	Grade 12 Capstone Math OR Elective Math Course **					

* Calculus Options Include: (See <u>Course Descriptions</u> for how these courses are offered)	Calculus DE Applied Calculus I & DE Applied Calculus II DE/AP Calculus I (AB) & DE/AP Calculus II (BC)
** Elective Math Courses: (See Course Descriptions for course prerequisites)	AP Computer Science Principles AP Computer Science A Probability & Statistics Data Science AP Statistics Grade 12 Math Capstone

- *** Algebra, Functions, and Data Analysis (AFDA) also may be:
 - 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)

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/AP English 11: Language & Composition	DE1196A	Students will receive college credit from	ENG 111 & ENG 112 are Passport Transfer courses ENG 112 is a prerequisite for all 200-level literature courses.

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

COURSE NAME	MCPS COURSE	COURSE DESCRIPTION	NOTES
English 12	11600	 Addresses the Virginia Standards of Learning for English 12 	
AP English 12: 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/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 	ENG 112 is a prerequisite for all 200-level literature courses. ENG 112 may be earned by: 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.
DE English 12: College DE1600B Composition		 Aligned with NRCC's ENG 111 & ENG 112 (and includes SDV 100) Students will receive college credit from NRCC for ENG 111 & ENG 112 (and SDV 100) Addresses the Virginia Standards of Learning for English 12 	This course is for 12th grade students who have <u>not</u> taken DE English 11.

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

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

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

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

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 both diploma types.

COURSE NAME	MCPS COURSE	WHEN TO TAKE	NOTES
Earth Science	42100	This is the science course taken by MCPS students in 8th grade or 9th grade	 Students will earn a high school credit for passing this course. All students will take the end-of-course SOL test for Earth Science at the completion of this course.
Biology or Biology Honors	43100 4310H	This is the science course taken by MCPS students in 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 Students must meet course prerequisites for all courses listed below (See Course Descriptions)

Students must meet course prerequisites for all courses listed below (See <u>Course Descriptions</u>)				
* Environmental Science	42700	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	These courses are "Biology II" courses		
Botany/Zoology	43200	These courses are blology in courses		
Ecology	43400			
AP Biology	4370A	Covers all topics from the AP Biology courseStudents will be prepared for the AP exam		
DE/AP Biology	DE4700A	 Aligned with NRCC's General Biology I & II Students receive 8 college credits from NRCC (BIO 101/102) Covers all topics from the AP Biology course Students will be prepared for the AP exam 		
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	
Chemistry II	44200	
AP Chemistry	4470A	Covers all topics from the AP Chemistry courseStudents will be prepared for the AP exam
DE/AP Chemistry	DE4470A	 Aligned with NRCC's General Chemistry I & II Covers all topics from the AP Chemistry course Students will receive 8 college credits from NRCC for CHM 111 & 112 and be prepared for the AP exam
Physics I	45100	
Principles of Technology I and Principles of Technology II / Applied Physics	98110 98120	Students who complete both of these courses in the sequence will satisfy 1 lab science credit (Physics discipline) and 1 CTE elective credit. (98110 and 98120 are also a CTE completer sequence.)
AP Physics	4571A	 Covers all topics from the AP Physics course Students will be prepared for the AP exam
DE/AP Physics	DE4571A	 Aligned with NRCC's General College Physics I & II Covers all topics from the AP Physics course Students will receive 8 college credits from NRCC for PHY 201 & 202 and be prepared for the AP exam
AP Computer Science A	3185A	This course can be used as a science credit but may NOT be used to meet the discipline requirements for standard and advanced studies diplomas.
External Opportunities	4703V DE4701V DE4702V	See the MCPS High School Program of Studies for information reading the following courses: • Virginia Space Coast Scholars (VSCS) VIRTUAL • Virginia Aerospace Science & Technology Scholars Program (VASTS) VIRTUAL • Virginia Earth System Science Scholars Program (VESSS) VIRTUAL

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

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

Standard Diploma: Students must earn <u>3 credits in 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</u> & Social Sciences that includes Virginia and U.S. History, Virginia and U.S. Government, and <u>TWO (2)</u> courses in either World History or Geography or both.

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 DE/AP Human Geography	22160 2399A 23801A DE2212A	These are the History & Social Sciences courses from which MCPS students must select in 10 th grade if they are pursuing an Advanced Studies Diploma	Only students who did NOT PASS the end-of-course performance assessments (PA) for World History & Geography to 1500 AD will take the end-of-course PA for World History & Geography to 1500 to present at the completion of any one of these courses.
Students will select one of the following courses to meet diploma requirements: • Virginia & US History • AP US History • DE/AP US History	23600 2319A DE2319A	These are the History & Social Sciences courses from which all MCPS students must select in 11th grade	Only students who did NOT PASS an end-of-course SOL test in a World History & Geography course will take the end-of-course SOL test for Virginia & US History at the completion of any one of these courses.
Students in 11 th Grade also may choose DE/AP Human Geography as an e			
Students will select one of the following courses to meet diploma requirements: • Virginia & US Government • AP Government & Politics: US • DE/AP Government & Politics: US	24400 2445A DE245A	These are the History & Social Sciences courses from which all MCPS students must select in 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.

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

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

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

HISTORY & SOCIAL SCIENCE ELECTIVE COURSES IN MCPS

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

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

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

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

GRADE 9 COURSE SELECTIONS

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

REQUIRED COURSES

ENGLISH:

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

SCIENCE:

Students who successfully completed Earth Science in middle school should select <u>Biology I or Biology I</u>
 <u>Honors</u> (Biology I Honors requires 8th grade science teacher recommendation). Students who did not pass
 <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 Graduation Requirements)

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

ENGLISHO		MCDC		High School Credits		1	Graduation	./	
		MCPS	11300	Weighted			Requirement	•	
ENGLISH 9	ENGLISH 9		Course 11	11300		English		SOL Test(s)	
			Coue		Credit Type	English		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	•		

		MCDC		High School Credits			Graduation	./	
WORLD HISTOI	RY & GEC	GRAPHY	MCPS	22150	Weighted			Requirement	*
TO 1500 AD		Course	22150	Cup dit Tour	History /		SOL Test(s)	./	
		Code		Credit Type	Social Scienc	es	Required	ľ	
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 HI & GEOGRA TO 1500 A 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	•		

			MCPS		High School C	credits	1	Graduation	1
ALGEBRA I			Course	31300	Weighted			Requirement	
ALGEBRAT	Code Credit Type Math		SOL Test(s)		/				
			Coue		Credit Type Wild			Required	ľ
Grade Level	9-10	Prerequisite(s)							
through the stud	ly of variable	urse extends stude es, expressions, equ nsidered essential	uations, ine	qualities, and an	alysis of data de	rived from real-	worl	d phenomena. L	

approach. Topics include linear equations and inequalities, systems of linear equations, relations, functions, polynomials, and statistics.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

GEOMETRY			MCPS Course	31430	High School C Weighted	redits	1	Graduation Requirement	✓
GEOMETRY			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	1	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)			31340	Weighted			Requirement		
		Course Code		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	•	

						High School C	rodite	1	Graduation	
				MCPS		Weighted	ieuits	1	Requirement	✓
ALGEBRA	A II			Course	31350				SOL Test(s)	
				Code		Credit Type	Math		Required	✓
Grade Leve	el	9-12	Prerequisite(s)	Algebra I	& Geometry	•				
Course Des	scriptio	n: This cou	rse provides a tho	rough treat	ment of algebraic	concepts throu	igh the study of	func	tions, polynomia	als,
rational ex	pression	ns, complex	numbers, expone	ential and lo	ogarithmic equatio	ons, arithmetic a	and geometric s	eque	ences and series,	
	-	-	s placed on the me		_			_		
		_	with families of fu			_	representation	and	solutions will be	e
emphasize	d. Grapl	ning utilitie	s, especially graph							
				_	ebra II curriculum					n
ALGEBRA I	II	3135H	-	_	esigned for studer				•	
HONORS		313311		urses and a	re eager to meet t	the demands of	a more rigorou	s and	d accelerated	
	1		course.							
AHS	•									
BHS	•									
CHS	•									
EMHS	•									
				MCPS		High School C	redits	1	Graduation	✓
FARTUC	CIENICE	_		Course	42100	Weighted			Requirement	•
EAKIH S	EARTH SCIENCE				42100	Credit Type	Earth Science	^	SOL Test(s)	\
						Credit Type	Earth Scienc	e	Required	•
Grade Leve	el	9-10	Prerequisite(s)							
Course De	scriptio	n: This cou	rse is designed to	give the stu	udent an understa	nding of the ear	rth, its processe	s, his	story and place in	า
the univers	se. Majo	or emphasi	s is on geology, m	eteorology,	oceanography an	id astronomy. N	∕lan's influence	on h	is environment,	
locally and	worldw	ide, is stres	ssed.							
AHS	•									
BHS	•									
CHS	•									
EMHS	•									
						High School C	redits	1	Graduation	
				MCPS		Weighted			Requirement	
ENVIRON	MENT	AL SCIEN	ICE	Course	42700		Science			
			_						SOL Test(s)	
				Code		Credit Type	(Earth Science	e		
				Code		Credit Type	•		Required	
Grade Leve	el	9	Prerequisite(s)	Code		Credit Type	(Earth Sciend or Biology)		Required	
		_	Prerequisite(s)		any components o		or Biology)		•	our
Course De	scriptio	n: This cou	rse integrates the	study of m	•	of our environm	or Biology) ent, including t	he hi	uman impact on	our
Course Des	scription ese outo	n: This cou		study of ma	ysical world, the li	of our environm	or Biology) ent, including t nt, resource co	he hi	uman impact on vation, humans'	our
Course Desplanet. The impact on	scription ese outo the envi	n: This cou comes focu ronment, a	rse integrates the s on scientific inqu	study of ma uiry, the ph responsibil	ysical world, the li ity. Students will	of our environm ving environme focus on data co	or Biology) ent, including t nt, resource co ollection and ar	he hi nserv	uman impact on vation, humans' s through	our
Course Desplanet. The impact on laboratory	scription ese outo the envi experie	n: This cou comes focu ronment, a nces and fi	rse integrates the s on scientific inqu and legal and civic	study of mairy, the phoresponsibile ude descrip	ysical world, the li ity. Students will tive and comparat	of our environme ving environme focus on data co tive studies as w	ent, including t nt, resource co ollection and ar vell as investiga	he hinservallysi	uman impact on vation, humans' s through (i.e. meaningful	
Course Desplanet. The impact on laboratory watershed	ese outo the envi experie educati	n: This cou comes focu ronment, a nces and fi onal exper	rse integrates the s on scientific inqu and legal and civic eld work that inclu	study of ma airy, the phoresponsibile ade descrip will be prov	ysical world, the li ity. Students will tive and comparati ided with opportu	of our environmed ving environmed focus on data coutive studies as wunities to engage	or Biology) ent, including t nt, resource co ollection and an vell as investiga e the communit	he hi nserv alysi tion (uman impact on vation, humans' s through (i.e. meaningful s well as be expo	sed
Course Desplanet. The impact on laboratory watershed	ese outo the envi experie educati points o	n: This cou comes focu ronment, a nces and fi onal exper	rse integrates the s on scientific inquand legal and civic eld work that incluiences). Students w	study of ma airy, the phoresponsibile ade descrip will be prov	ysical world, the li ity. Students will tive and comparati ided with opportu	of our environmed ving environmed focus on data coutive studies as wunities to engage	or Biology) ent, including t nt, resource co ollection and an vell as investiga e the communit	he hi nserv alysi tion (uman impact on vation, humans' s through (i.e. meaningful s well as be expo	sed
Course Desplanet. The impact on laboratory watershed to diverse	ese outo the envi experie educati points o	n: This cou comes focu ronment, a nces and fi onal exper	rse integrates the s on scientific inquand legal and civic eld work that incluiences). Students w	study of ma airy, the phoresponsibile ade descrip will be prov	ysical world, the li ity. Students will tive and comparati ided with opportu	of our environmed ving environmed focus on data coutive studies as wunities to engage	or Biology) ent, including t nt, resource co ollection and an vell as investiga e the communit	he hi nserv alysi tion (uman impact on vation, humans' s through (i.e. meaningful s well as be expo	sed
Course Desplanet. The impact on laboratory watershed to diverse opportunit	ese outo the envi experie educati points o	n: This cou comes focu ronment, a nces and fi onal exper	rse integrates the s on scientific inquand legal and civic eld work that incluiences). Students w	study of ma airy, the phoresponsibile ade descrip will be prov	ysical world, the li ity. Students will tive and comparati ided with opportu	of our environmed ving environmed focus on data coutive studies as wunities to engage	or Biology) ent, including t nt, resource co ollection and an vell as investiga e the communit	he hi nserv alysi tion (uman impact on vation, humans' s through (i.e. meaningful s well as be expo	sed
Course Desplanet. The impact on laboratory watershed to diverse opportunit AHS	ese outo the envi experie educati points o	n: This cou comes focu ronment, a nces and fi onal exper	rse integrates the s on scientific inquand legal and civic eld work that incluiences). Students w	study of ma airy, the phoresponsibile ade descrip will be prov	ysical world, the li ity. Students will tive and comparati ided with opportu	of our environmed ving environmed focus on data coutive studies as wunities to engage	or Biology) ent, including t nt, resource co ollection and an vell as investiga e the communit	he hi nserv alysi tion (uman impact on vation, humans' s through (i.e. meaningful s well as be expo	sed

				MCPS		High School C	Credits	1	Graduation	✓
PIOLOGV				Course	43100	Weighted			Requirement	•
BIOLOGY	•				45100	Credit Type	Science		SOL Test(s)	✓
				Code		Credit Type	(Biology)		Required	•
Grade Leve	el	9-10	Prerequisite(s)							
			etics, microbiology g of biological base							
BIOLOGY HONORS		4310H	excellence in pre	evious scier	e Biology I curricunce courses and ar	e eager to put f				
			demands of a m	ore rigorou	is and accelerated	course.				
AHS	•									
BHS	•									
CHS	•									

	IEALTH & PHYSICAL EDUCATION 9			MCPS		High School C	redits	1	Graduation Requirement	✓
HEALTH					Course 73000 Code	Credit Type	НРЕ		SOL Test(s) Required	
Grade Leve	el	9	Prerequisite(s)	None						
bleeding, c	ontusio efibrillat N 9 / &	ns, fractur	E 9 consists of Heales, and anaphylact afety, drug educated Same as 73000 e	ic shock, ad ion, family	lult and child ca life, and disease	rdiopulmonary re	suscitation (CPF			
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 or DE/AP Human Geography (AP courses require previous history teacher recommendation)

MATH:

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

HEALTH & PHYSICAL EDUCATION:

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

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

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

			MCDC		High School C	Credits	1	Graduation	./
ENGLICH 40	ENGLISH 10		MCPS	11400	Weighted			Requirement	•
ENGLISH 10			Course Code	11400	Credit Type	English		SOL Test(s)	
			Coue		Credit Type	Eligiisii		Required	
Grade Level	10	Prerequisite(s)	English 9					_	

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

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

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

			MCPS		High School Credits		1	Graduation	
WORLD HISTOR	GRAPHY	_	22160	Weighted			Requirement		
1500 TO PRESENT			Course Code	22100	Cuadit Tura	History /		SOL Test(s)	✓
					Credit Type	Social Science	es	Required	
Grade Level 10 Prerequisite(s) World Hi				story & Geography	to 1500 AD				

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

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

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

VD.			MCPS		High School Credits		1	Graduation	
AD FURODEAN		Course	2399A	Weighted		>	Requirement		
AP EUROPEAN HISTORY			Code	2333A	Credit Type	History /		SOL Test(s)	/
					Credit Type	Social Science	es	Required	•
Grade Level	Prerequisite(s)	World History & Geography to 1500 AD. Students should be able to read a							
Grade Level	10-12 Prerequisite(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.

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

AHS	•	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	•						

	VD.	MCPS	23801A	High School Credits		1	Graduation		
AP WORLD HISTORY: MODERN		A		Course Code	Weighted		\	Requirement	
					Credit Type	History /		SOL Test(s)	
					Credit Type	Social Science	es	Required	
Grade Level	10-12	Prerequisite(s)	World History & Geography to 1500 AD. Students should be able to read a						
Grade Level	10-12	Frerequisite(s)	college-level textbook and write grammatically correct, complete sentences.						

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

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

AHS		
BHS	•	
CHS		
EMHS		

DE/AP HUM	AN (GEOGRAF	нү АР	MCPS	DE22424	High School C Weighted	redits	1	Graduation Requirement	
				Course Code	DE2212A	Credit Type	History / Social Scienc	es	SOL Test(s) Required	
Dual Enrolled	✓	■ None	EW RIVER	NRCC Course Code(s)	GEO 210 & GEO 220	College Credit	:s	6	TRANSFER VIRGINIA	*
Grade Level		10-12	Prerequisite(s)		story & Geography vel textbook and					

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

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

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

There are <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.

ALCERDAL			MCPS Course	31300	High School C Weighted	Veighted Require Credit Type Math		Graduation Requirement	✓
ALGEBRA I			Code	31300	Credit Type			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	•	

			MCDC		High School C	Credits	1	Graduation	./
GEOMETRY			MCPS	31430	Weighted			Requirement	•
GEOWIETKY			Course Code	31430	Credit Type	Math		SOL Test(s)	./
			Code		Credit Type	iviatii		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.

GEOMETR' HONORS	Y	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, FUN	CTIONS, 8	& DATA	MCPS	24240	High School Credits Weighted		1	Graduation Requirement	
ANALYSIS (AFD	A)		Course Code	31340	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	•	

			MCPS		High School C	credits	1	Graduation	./
BIOLOGY I			_	43100	Weighted			Requirement	•
BIOLOGYI			Course Code	43100	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	•		

				MCPS		High School (Credits	1	Graduation Requirement	✓
ALGEBRA II				Course 31350 Code	Credit Type	Math		SOL Test(s) Required	✓	
Grade Level		9-12	Prerequisite(s)	Algebra I	& Geometry	•				
and data analy approach to g	ysis. E raphir	mphasis is	numbers, expone s placed on the me with families of fu s, especially graph	echanics of Inctions. Nu	algebra with rea	l world application	ons and modelin	ng. A	transformationa	al
ALGEBRA II HONORS		3135H	This course exte and problem sol mathematics co- course.	ving. It is d	_	ents who have de	emonstrated suc	ccess	in previous	n
AHS	•									
BHS	•									
CHS	•	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·						
EB 4116	_									

						High School Co	odita	1	Graduation	
HEALTH	& PHY	SICAL ED	UCATION 10	MCPS		High School Credits Weighted		1	Requirement	٧
WITH DE	RIVER'S	EDUCAT	TION	Course Code	74050	Credit Type	НРЕ		SOL Test(s) Required	
DRIVER'S	AIVER'S ED CLASSROOM Inde Level 10 Prerequisite(s Furse Description: Physical education employsical education program contributes to the ssroom component of HPE 10 consists of consists				70150	High School Credits		0		
Grade Lev	el	10	Prerequisite(s)	HPE 9						
	ALTH &									_
HEALTH &	ate of Virginia.									
	SICAL									
EDUCATIO		74051	Same as 74050 (except with a	emphasis on S	trength and Condit	ioning			
PHYSICAL EDUCATIO WITH DRIV EDUCATIO	VER'S ON /	74051	Same as 74050 6	except with e	emphasis on S	trength and Condit	ioning.			
EDUCATIO WITH DRIV EDUCATIO STRENGTH	VER'S ON / I &	74051	Same as 74050 6	except with 6	emphasis on S	trength and Condit	ioning.			
EDUCATIO WITH DRIV EDUCATIO STRENGTH CONDITIO	VER'S ON / I &	74051	Same as 74050 e	except with (emphasis on S	trength and Condit	ioning.			
EDUCATIO WITH DRIV EDUCATIO STRENGTH CONDITIO AHS BHS	VER'S ON / I & NING	74051	Same as 74050 6	except with 6	emphasis on S	trength and Condit	ioning.			
EDUCATIO	VER'S ON / H & ONING	74051	Same as 74050 e	except with o	emphasis on S	trength and Condit	ioning.			

GRADE 11 COURSE SELECTIONS

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

REQUIRED COURSES

ENGLISH:

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

SCIENCE:

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

HISTORY / SOCIAL SCIENCE

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

MATH:

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

ELECTIVE COURSES (See Graduation Requirements)

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

			NACDC		High School C	Credits	1	Graduation	./
ENGLISH 11		MCPS Course	11500	Weighted			Requirement	•	
		Code	11300	Credit Type	English		SOL Test(s)	1	
			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.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

AP ENGLISH 11		AP ¹	MCPS		High School C Weighted	redits	1	Graduation Requirement	✓
LANGUAGE & COMPOSITION		Course Code	1196A	Credit Type	English	ı	SOL Test(s) Required	✓	
Grade Level	11	Prerequisite(s)	_	and the ability to	•	_		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 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.

AHS	•
BHS	•
CHS	•
EMHS	•

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

DE/AP ENGLISH 11 LANGUAGE & COMPOSITION			MCPS Course DE1196A		High School Credits Weighted			Graduation Requirement	✓	
			Course DE1196	DEIIGOA	Credit Type English			SOL Test(s) Required	✓	
Dual Enrolled	✓	NE Com	NEW RIVER		ENG 111 & ENG 112	College Credi	ts	6	TRANSFER VIRGINIA	
Grade Level 11 Prerequisite(s) English 10 *										

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

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

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

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

AHS	•	
BHS	•	
CHS	•	
ENALIC		

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

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

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 C	Credits	1	Graduation	./
VIRGINIA & U.S. HISTORY		MCPS Course	23600	Weighted			Requirement		
		Code	23000	Credit Type	History /		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: All students in VA/US History who must earn a verified credit for social studies will complete performance-based assessments for inclusion in their course portfolio that will be evaluated, along with other assignments, to earn a Verified Credit in social studies. (*VDOE contingencies may necessitate the continued use of the traditional SOL end-of-course examination.*)

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

AP U.S. HISTORY		AP ¹	MCPS	2319A	High School C Weighted	redits	1	Graduation Requirement	✓
AP U.S. HISTOR	X I		Course Code	23137	Credit Type	History / Social Science	es	SOL Test(s) Required	✓
Grade Level	Grade Level 11 Prerequisite(s) Students should be able to read a college-level textbo				evel textbook a	nd w	rite grammatical	lly	

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

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

DE/AP U.S. HISTORY			MCPS		High School Credits Weighted		1	Graduation Requirement	✓	
			Course DI Code	DE2319A	Credit Type History / Social Scient			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: See course description for AP U.S. History (2319A).

This course is also 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 pages 9-11 and 194-196) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

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

AHS	•	
BHS	•	Also may be offered as AP US History (based on the availability of qualified staff at each high school who have the
CHS	•	necessary credentials to teach dual-enrolled 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 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

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

		MCPS		High School Credits			Graduation		
AD ELIDODEAN		Course	2399A	Weighted		✓	Requirement		
AP EUROPEAN HISTORY			Code	2599A	Cuadit Tuna	History /		SOL Test(s)	./
					Credit Type	Social Science	es	Required	•
Consider Land			World History & Geography to 1500 AD. Students should be able to read a						
Grade Level	10-12	Prerequisite(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.

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

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

AP WORLD HISTORY:			MCPS Course	23801A	High School Credits Weighted		1	Graduation Requirement	
MODERN			Code	25601A	Credit Type	History / Social Science	es	SOL Test(s) Required	
Grade Level	10-12	Prerequisite(s)	ite(s) World History & Geography to 1500 AD. Students should be able to college-level textbook and write grammatically correct, complete ser						

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

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

AHS		
BHS	•	
CHS		
EMHS		

DE/AP HUMAN GEOGRAPHY AP		MCPS Course DE2212A		High School Credits Weighted		1	Graduation Requirement			
		Code	DEZZIZA	Credit Type	History /		SOL Test(s)			
			Code		Credit Type	Social Scienc	es	Required		
Dual Enrolled	✓	■ None	EW RIVER	NRCC Course Code(s)	GEO 210 & GEO 220	College Credit	s	6	TRANSFER VIRGINIA	r
Grade Level	de Level 10-12 Prerequisite(s)		World History & Geography to 1500 AD. Students should be able to read a college-level textbook and write grammatically correct, complete sentences.*							

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

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

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

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

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

GEOMETRY		MCPS Course	31430	High School C Weighted	redits	1	Graduation Requirement	✓	
GEOWIETRY			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.

GEOMETR HONORS			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	•	The hono	rs-level course is not offered at AHS.
BHS	•		
CHS	•		
EMHS	•		

ALGEBRA, FUNCTIONS, & DATA			MCPS	24240	High School C Weighted	credits	1	Graduation Requirement
ANALYSIS (AFI	ANALYSIS (AFDA)		Course Code	31340	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		High School C	redits	1	Graduation	_	
			31350	Weighted			Requirement	ľ	
ALGEDNA II			Course Code	31330	Cradit Tura	Math		SOL Test(s)	_/
			Code		Credit Type	Math		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.

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

SCIENCE:

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

HISTORY / SOCIAL SCIENCE:

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

MATH:

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

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

ENGLISH 12		MCDC	High School Credits			Graduation	./		
			MCPS	11600	Weighted			Requirement	*
			Course Code	11000	Credit Type	English		SOL Test(s)	
			Code		Credit Type	Eligiisii		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				MCPS Course	1195A	High School C Weighted	Credits	1	Graduation Requirement	✓
	LITERATURE & COMPOSITION		Code	1133A	Credit Type	English		SOL Test(s) Required		
	Grade Level	12	Prerequisite(s)		1 and the ability to entions of Standard		_		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	•	
BHS	•	Also may be offered as DE/AP English 12 Literature & Composition (based on the availability of qualified staff at
CHS	•	each high school who have the necessary credentials to teach dual-enrolled English).
FMHS	•	

DE ENGLISH 12			MCPS Course	DE1600B	High School Credits Weighted		1	Graduation Requirement	✓	
COLLEGE COMPOSITION		Code	DLIOOOB	Credit Type	English		SOL Test(s) Required			
Dual Enrolled	✓	■ NEW RIVER Community College		NRCC Course Code(s)	ENG 111 & ENG 112	College Credi	ts	6	TRANSFER VIRGINIA	′
Grade Level 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 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

AHS	
BHS	•
CHS	•
EMHS	

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

DE/AP ENGLISH 12			MCPS	High School Credits Weighted			Graduation Requirement	✓		
LITERATURI	ERATURE & COMPOSITION		Course DE1195A Code	Credit Type	English		SOL Test(s) Required			
Dual Enrolled	✓	NE Com	NEW RIVER Community College		ENG 245 & ENG 225	College Credi	ts	6	TRANSFER VIRGINIA	1
Grade Level 12 Prerequisite(s) DE English 11 or AP English 11 with a score of 4 or higher			n th	e AP Exam *						

Course Description: See course description for AP English 12 Literature & Composition (1195A).

This course is also 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 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC. This course may carry with it a fee to NRCC.

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	•
CHS	•
EMHS	•

Also may be offered as AP English 12 Literature & Composition (based on the availability of qualified staff at each high school who have the necessary credentials to teach dual-enrolled English).

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

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

			MCPS	High School Credits			Graduation	./	
VIDCINIA S II C COVERNMENT		Course	24400	Weighted			Requirement	•	
VIRGINIA & U	VIRGINIA & U.S. GOVERNMENT		Code	Credit Type	History /		SOL Test(s)		
		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	AP ²	I MCPS I		High School Credits Weighted			Graduation Requirement	✓	
& POLITICS: UI	& POLITICS: UNITED STATES			2445A	Credit Type	History / Social Science	es	SOL Test(s) Required	
Grade Level	12 Bronomicit		Students should be able to read a college-level textbook and write gi					rite grammatica	lly
Graue Level	12	Prerequisite(s)	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	•	
BHS	•	Also may be offered as DE/AP Government & Politics: United States (based on the availability of qualified staff at
CHS	•	each high school who have the necessary credentials to teach dual-enrolled Government).
FMHS	•	

DE/AP GOVERNMENT & POLITICS: UNITED STATES		MCPS Course	DE2445A	High School Credits Weighted			Graduation Requirement	✓		
		Code	DL2443A	Credit Type	History / Social Scienc	es	SOL Test(s) Required			
Dual Enrolled	✓	NEW RIVER Community College		NRCC Course Code(s)	PLS 135 & PLS 136	College Credi	ts	6	TRANSFER VIRGINIA	′
Grade Level		12	Prerequisite(s)	See Below	*					

Course Description: See course description for AP Government & Politics: United States (2445A).

This course also 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 pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

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

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

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		VD.	MCPS	oc .	High School Credits		1	Graduation	
AP GOVERN				2450A	Weighted		V	Requirement	V	
& POLITICS:	COMPA	RAT	IVE	Code 2450A	245UA	Credit Type	History /		SOL Test(s)	
				Code	Creat Type	Social Scienc	es	Required		
Grade Level	12	2	Prerequisite(s)							
Course Descrip	otion: The	conte	ent of this college	-level cours	e corresponds to	the syllabus of t	he College Boar	d Ad	vanced Placemer	ηt
Program for th	ie AP Com	parati	ive Government a	nd Politics	course. The cours	se introduces stu	udents to the ric	h div	ersity of political	1
life outside the	United St	ates.	The course uses a	comparati	ve approach to ex	kamine the polit	ical structures; p	oolici	es; and the	
political, econo	omic, and s	social	challenges amon	g six selecti	ed countries: Gred	at Britain, Mexic	co, Russia, Iran, (Chin	a, and Nigeria.	
Additionally, s	tudents ex	amine	e how different go	- overnments	solve similar prob	blems by compa	ring the effectiv	enes	ss of approaches	to
many global is	sues. The	cours	e focuses on spec	ific represe	ntative countries	(comparative sy	stems) so that t	he si	tudent obtains ar	7
understanding	of the dive	ersity	of world political	structures	and politics.		,			
AHS			-		-1 (6					
BHS					ntly offered due t					
CHS		historical student interest, availability of certified staff, and/or current resources.							ources.	
ED ALLC	-	Students interested in this course should see their school counselor.								

WORLD LANGUAGES

		MCPS Segment S		High School Credits			Graduation		
ASL I: AMERICAN SIGN LANGUAGE	Weighted				Requirement				
ASL I: AMERICAN SIGN LANGUAGE			Maria Languaga		SOL Test(s)				
			Coue	Credit Type		World Language		Required	
Grade Level	9-12	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.

		MCPS S9950 W		High School Credits		1	Graduation		
ASL II: AMERICAN SIGN LANGUAGE	E00E0		Weighted			Requirement			
ASL II: AWIERICAN SIGN LANGUAGE			Credit Type	Mandal anama		SOL Test(s)			
				Credit Type	World Language		Required		
Grade Level	9-12	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	•
EMHS	•

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

ASL III: AMERICAN SIGN LANGUAGE		MCPS Course Code	59970	High School Credits Weighted			Graduation Requirement		
				Credit Type	World Langua	ige	SOL Test(s) Required		
Grade Level	10-12	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.

ACLIN AMERICAN CIONI ANGUAGE			MCPS Course Code		High School Credits Weighted		1	Graduation Requirement	
ASL IV: AMERICAN SIGN LANGUAGE		59980		Credit Type	World Language		SOL Test(s) Required		
Grade Level	11-12	Prerequisite(s)	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		MCPS	High School (Weighted	credits	1	Graduation			
		_		Weighted			Requirement	l	
		Course Code	28100	Cradit Type	World Langua	SOL Test(s)			
		Coue		Credit Type		ige	Required		
Grade Level	9-12	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	•
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 I			_	51100	Weighted			Requirement	
FREINCHT			Course Code	31100	Cuadit Tuna	Morld Langua		SOL Test(s)	
			Code		Credit Type	World Langua	ige	Required	
Grade Level	9-12	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	•
EMHS	•

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

			MCPS		High School C	realts	1	Graduation	
FRENCH II			Course	51200	Weighted			Requirement	
FRENCH II	_		Code	31200	Credit Type	World Langua	ige	SOL Test(s) Required	
Grade Level	9-12	Prerequisite(s)	C average	or better in Frei	nch I				
Course Descriptio	n: This coບ	ırse further develo	ps speaking	, listening, readi	ng, and writing s	kills, broadenin	g the	formal study of	
grammar and voca	abulary. St	udents will continu	ue to learn a	bout France and	d other francoph	one countries.	Mucl	n of the class wil	b
conducted in Fren	ch.								
AHS •									
BHS •	May be o	ffered at any high s	chool based	on sufficient stud	lent interest/dem	and and the ava	ilahil	ity of qualified st	aff
CHS •	I way be o	merea at any mgm s	crioor basea	on summerent stat	acine initerest, acin	and the ava	iiu bii	ity of qualified st	4
MHS •									
			MACDC		High School C	redits	1	Graduation	
RENCH III			MCPS	51300	Weighted			Requirement	
KENCH III			Course Code	51300	Credit Type	World Langua	ige	SOL Test(s) Required	
Grade Level	10-12	Prerequisite(s)	C average	or better in Frei	nch II			quou	
	<u> </u>	urse introduces adv	•			ry and encourse	Je cr	eative expression	_
-		compositions and	_				_	-	•
		to French literatur							
AHS •				,		,			_
BHS •									
CHS •	May be o	ffered at any high s	chool based	on sufficient stud	dent interest/dem	and and the ava	ilabil	ity of qualified sta	aff.
EMHS •	_								
					High School C	radits	1	Graduation	
			MCPS		Weighted	icuits		•	
FRENCH IV			Course	51400	Weighted			Requirement	
				02.00				Requirement	T
			Code	32.33	Credit Type	World Langua	ige	SOL Test(s)	
Grade Level	11-12	Prerequisite(s)				World Langua	ige	-	
	11-12	Prerequisite(s)	C average	or better in Frei	nch III			SOL Test(s) Required	
Course Descriptio	n: In this c	ourse, students wi	C average	or better in Frer	nch III listening, speaki	ng, reading, and	l writ	SOL Test(s) Required ting skills throug	
Course Description: The study of more	n: In this c	ourse, students wi rammatical structu	C average Il continue t ures and voc	or better in Frence to improve their abulary, as well	lnch III listening, speaki as an artistic, lite	ng, reading, and	l writ	SOL Test(s) Required ting skills throug survey of France	
Course Description The study of more Coudents will cont	n: In this c	ourse, students wi	C average Il continue t ures and voc	or better in Frence to improve their abulary, as well	lnch III listening, speaki as an artistic, lite	ng, reading, and	l writ	SOL Test(s) Required ting skills throug survey of France	
Course Description the study of more Students will contents.	n: In this c complex gr inue to stud	ourse, students wi rammatical structu dy other francopho	C average Il continue t ures and voc one countrie	or better in Frence improve their abulary, as well es as well. The c	l nch III listening, speaki as an artistic, lite lass is conducted	ng, reading, and erary, and histor I almost entirely	l writical s	SOL Test(s) Required ting skills throug survey of France rench.	•
Course Description the study of more Students will content AHS BHS State Description	n: In this c complex gr inue to stud	ourse, students wi rammatical structu	C average Il continue t ures and voc one countrie	or better in Frence improve their abulary, as well es as well. The c	l nch III listening, speaki as an artistic, lite lass is conducted	ng, reading, and erary, and histor I almost entirely	l writical s	SOL Test(s) Required ting skills throug survey of France rench.	•
Course Description the study of more Students will cont AHS BHS CHS	n: In this c complex gr inue to stud	ourse, students wi rammatical structu dy other francopho	C average Il continue t ures and voc one countrie	or better in Frence improve their abulary, as well es as well. The c	l nch III listening, speaki as an artistic, lite lass is conducted	ng, reading, and erary, and histor I almost entirely	l writical s	SOL Test(s) Required ting skills throug survey of France rench.	•
Course Description the study of more Students will contend the SHS SHS SHS SHS SHS SHS SHS SHS SHS SH	n: In this c complex gr inue to stud	ourse, students wi rammatical structu dy other francopho	C average Il continue t ures and voc one countrie	or better in Frence improve their abulary, as well es as well. The c	l nch III listening, speaki as an artistic, lite lass is conducted	ng, reading, and erary, and histor I almost entirely	l writical s	SOL Test(s) Required ting skills throug survey of France rench.	•
Course Description he study of more students will contain the students will be supported by the supported by the students will be supported by the supported by the supported	n: In this c complex gr inue to stud	ourse, students wi rammatical structu dy other francopho	C average Il continue t ures and voc one countrie	or better in Frence improve their abulary, as well es as well. The c	listening, speaki as an artistic, lite lass is conducted dent interest/dem	ng, reading, and erary, and histor I almost entirely and and the ava	l writical s	sol Test(s) Required ting skills throug survey of France rench.	•
Course Description the study of more Students will cont AHS BHS CHS	n: In this c complex gr inue to stud	ourse, students wi rammatical structu dy other francopho	C average Il continue t ures and voc one countrie	or better in Frence improve their abulary, as well es as well. The c	listening, speaki as an artistic, lite lass is conducted dent interest/dem	ng, reading, and erary, and histor I almost entirely and and the ava	l writical s	sol Test(s) Required ting skills throug survey of France rench. lity of qualified sta	•
Course Description the study of more Students will content AHS BHS CHS EMHS E	n: In this c complex gr inue to stud	ourse, students wi rammatical structu dy other francopho	C average II continue t ures and voc one countrie	or better in Frence improve their abulary, as well es as well. The c	listening, speaki as an artistic, lite lass is conducted dent interest/dem High School C	ng, reading, and erary, and histor I almost entirely and and the ava	l writical s	sol Test(s) Required ting skills throug survey of France rench. tity of qualified sta	•
Course Description the study of more students will content to the students will be students to the student	n: In this c complex gr inue to stud	ourse, students wi rammatical structu dy other francopho	C average II continue t ures and voc one countrie chool based	or better in Frence co improve their cabulary, as well es as well. The co	listening, speaki as an artistic, lite lass is conducted dent interest/dem	ng, reading, and erary, and histor I almost entirely and and the ava	l writical :	sol Test(s) Required ting skills throug survey of France rench. tity of qualified sta Graduation Requirement SOL Test(s)	•
Course Description the study of more Students will cont AHS	n: In this c complex gr inue to stud	ourse, students wi rammatical structu dy other francopho ffered at any high s	C average Il continue t ures and voc one countrie chool based MCPS Course Code	or better in Frence or improve their cabulary, as welles as well. The company on sufficient study	listening, speaki as an artistic, lite lass is conducted dent interest/dem High School C Weighted Credit Type	ng, reading, and erary, and histor almost entirely and and the ava	l writical :	sol Test(s) Required ting skills throug survey of France rench. tity of qualified sta	•
the study of more Students will cont AHS BHS CHS EMHS FRENCH V Grade Level	n: In this c complex gi inue to stud May be o	ourse, students wi rammatical structu dy other francopho	C average Il continue to the countries and voc cone countries chool based MCPS Course Code C average	or better in Free co improve their cabulary, as well es as well. The co	listening, speaki as an artistic, lite lass is conducted dent interest/dem High School C Weighted Credit Type	ng, reading, and erary, and histor almost entirely and and the avarant and the avarant world Langua	I writical string in F	sol Test(s) Required ting skills through survey of France french. lity of qualified state of the state of t	aff.

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.

class is conducted entirely in French.

AHS

BHS

CHS

EMHS

57

AP FRENCH LANGUAGE AND CULTURE



MCPS Course Code

5170A

High School C	redits	1	Graduation	
Weighted		✓	Requirement	
Credit Type	World Langua	ıπο	SOL Test(s)	
Credit Type	World Langua	ge	Required	

Grade Level

11-12 Prerec

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.

			MCDC		High School C	Credits	1	Graduation	
GERMAN I			MCPS	52100	Weighted			Requirement	
GERIVIAN			Course Code	52100	Cuadit Tuna	Morld Langua		SOL Test(s)	
			Code		Credit Type	World Langua	ige	Required	ı
Grade Level	9-12	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.

			MCPS		High School C	redits	1	Graduation	
GERMAN II				52200	Weighted			Requirement	
GERIVIAIN II			Course Code	32200	Cradit Tura	Morld Langua	~~	SOL Test(s)	
			Code		Credit Type	World Langua	ge	Required	
Grade Level	9-12	Prerequisite(s)	C average	or better in Germ	nan 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	•
FMHS	•

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

			10-12 Prerequisite(s) This course reviews previoctive forms of verbs. Studen ood conversational skills. A	MCPS		High School C Weighted	credits	1	Graduation Requirement	
GERMAI	N III			Course Code	52300	Credit Type	World Langua	ige	SOL Test(s) Required	
Grade Lev	el	10-12	Prerequisite(s)	C average	or better in Gern	nan II				
passive an	d subjur	ctive forms	s of verbs. Studen	its will exte	nd their vocabula	ry, be introduce	d to more challe	engir	ng literature, and	
AHS	•									
BHS	•	Mayboof	fored at any high s	chaal bacad	on cufficient stud	ant intaract/dam	and and the ava	ilahil	ity of avalified et	off.
CHS	•	iviay be of	fered at any high s	ciiooi based	i on sumcient stud	ent interest/dem	iaiiu aiiu the ava	IIabii	ity or qualified sta	JII.
EMHS	•									

CEDNAAN	1.11.7			MCPS Course	52400	High School C Weighted	Credits	1	Graduation Requirement	
GERMAN	N IV			Code	32400	Credit Type	World Langua	age	SOL Test(s) Required	
Grade Lev	el	11-12	Prerequisite(s)	C average of	or better in Gei	rman III				
the applica	ation of	more comp	ourse, students wi llex grammatical s topics including (tructures and	d vocabulary. S	Students will stud	· ·			

		MCPS		High School (Credits	1	Graduation		
CEDMANN			52500	Weighted			Requirement		
GERMAN V		Code	Code Credit Type World Language SOL Te	SOL Test(s) Required					
Grade Level	rade Level Prerequisite(s)		or better in Gerr	nan IV					
Course Description	n: This course continues to re	inforce the	grammar and str	ructures of Germ	nan IV. The mat	erial	will focus on		
German conversar comprehension.	ion, literature written in Gerr	nan, cultura	l, historical and d	current events, a	as well as, listeni	ing a	ctivities to incred	ise	
AHS									
BHS			ntly offered due t						
CHS	historical st						ources.		
EMHS	Stude		tea in this course	e should see their school counselor.					

CDANICI	SPANISH I		MCPS	FF100	High School C Weighted	Credits	1	Graduation Requirement		
SPANISH	I			Course Code	55100	Credit Type World Lang		ige	SOL Test(s) Required	
Grade Lev	Grade Level 9-12 Prerequisite(s)									
basis for si	mple lis	tening, spe	rse concentrates on aking, reading and skills and knowled	l writing ski	lls. The cultures	of Spanish speal	king countries w	ill be		
AHS	•									
BHS	•									
CHS	HS •									
EMHS	•									

	SPANISH II			MCPS		High School (Weighted	Credits	1	Graduation Requirement
SPANISI	111			Course Code	55200	Credit Type	World Langua	SOI Test(s)	
Grade Lev	/el	9-12	Prerequisite(s)	C average o	or better in Spa	anish I			
	ncreased	l formal stu	rse further develo dy of grammar and	-					-
	•								
AHS									
	•								
BHS CHS	•								

SPANISH III				MCPS Course 55300	FF200	High School C Weighted	Credits	1	Graduation Requirement
SPAINISF	1 1111			Code	55300	Credit Type	World Langua	SOL Test(s)	` '
Grade Lev	el	10-12	Prerequisite(s)	C average or better in Spanish II					
expression	-	-	ntic materials. Pre	•	ed grammar w	ill be reviewed ar	nd advanced gra	mm	atical studied
	•		d and students wil	l apply their ι	understanding	of the Spanish la	nguage through		
	•		d and students wil	l apply their ι	understanding	of the Spanish la	nguage through		
speaking i	•		d and students wil	l apply their ι	understanding	of the Spanish la	nguage through		
speaking i	•		d and students wil	l apply their ι	understanding	of the Spanish la	nguage through		

CDANICI	SPANISH IV		MCPS Course 55400 High School Credits Weighted					1	Graduation Requirement	
SPANISH	IV			Course			ige	SOL Test(s) Required		
Grade Lev	el	11-12	Prerequisite(s)	C average	or better in Span	ish III				
the applica	ation of lections	more comp	ourse, students wi lex grammatical s cal and contempo	tructures a	nd vocabulary and	I the study of a	uthentic resourc	es. S	Students will stu	ıdy
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

CDANICITY		MCPS	55500	High School (Weighted	Credits	1	Graduation Requirement	
SPANISH V		Code 55500		Credit Type	World Langua	age	SOL Test(s) Required	
Grade Level	Prerequisite(s)	C average o	or better in Spa	nnish IV				
Course Description: This course continues to Spanish conversation, literature from Spanish comprehension							i will focus on	
		authors, cultu	ıral and curren	t events, and list	ening activities t	to inc	crease	
comprehension.						to inc	crease	
Spanish convers comprehension. AHS BHS		Not current	tly offered due	to multiple facto	ors, including			
comprehension.	historical s	Not current	tly offered due st, availability		ors, including and/or current	t reso		

AP SPANISH LANGUAGE		MCPS	FF704	High School C Weighted	Credits	1	Graduation Requirement		
& CULTURE			Course Code	5570A	Credit Type	World Langua	ige	SOL Test(s) Required	
Grade Level	11-12	Prerequisite(s)	C average	or better in Span	ish IV				

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 figh school based on sufficient student interest/demand and the availability of qualified staff.
EMHS	•	

CDANICH	SPANISH VI Course Code			55600	High School C Weighted	Credits	1	Graduation Requirement		
SPAINISH					World Language		SOL Test(s) Required			
Grade Leve	vel 11-12 Prerequisite(s)			C average or better in AP Spanish Language & Culture						
	nversati		rse continues to rure from Spanish a		-	•				
AHS	•									
BHS	•	Mayboof	ffored at any high s	chaal bacad	an sufficient stud	ant intaract/dam	and and the ava	ilahil	ity of avalified et	tt
CHS	May be offered at any high			criooi baseu	on sumcient stud	ent interest/den	ialiu aliu tile ava	IIabii	ity or quaimed sta	111.
EMHS	•									

ENGLISH ELECTIVES

WORLD MYTHOLOGY		MCPS Course 11650 Code	11650	High School Credits Weighted		1	Graduation Requirement		
			11030	Credit Type	English Electi	ve	SOL Test(s) Required		
Grade Level	9-12	Prerequisite(s)							
Course Description	Course Description: This course introduces stud		dents to ma	ajor themes, stori	ies, and characte	ers in the mytho	ologi	es of several	
different cultures. The course will concentrate or		on Greek an	d Roman mythol	ogy, but will also	include mater	ial fr	om Norse, Celtic,		

Course Description: This course introduces students to major themes, stories, and characters in the mythologies of several different cultures. The course will concentrate on Greek and Roman mythology, but will also include material from Norse, Celtic, Native American, African and Egyptian mythology. The course will be taught using an interdisciplinary approach that considers literary and artistic themes from diverse perspectives including theology, sociology, anthropology and history.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

_			MCPS		High School Credits			Graduation	
CREATIVE WRITING /		_	11710	Weighted			Requirement		
LITERARY MAG	LITERARY MAGAZINE I		Course Code	11/10	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Level	Grade Level 9-12 Prerequisite(s)								

Course Description: This course has a dual objective: to develop student poetry and prose fiction and to publish a professional quality literary magazine during the spring semester. Students will receive feedback on their own writing and will learn the fundamentals of editing. Students will serve as the staff in all aspects of magazine publication: desktop publishing technology, promotion, and advertising.

AHS	•	
BHS	•	
CHS	•	
EMHS		

			MCPS		High School C	credits	1	Graduation	
CREATIVE WRITING /		_	11711	Weighted			Requirement		
LITERARY MAG	AZINE II		Course 11 Code	11/11	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Level	Grade Level 9-12 Prerequisite(s)	Creative \	Writing / Literary N	Magazine I					

Course Description: This course is a writing intensive class designed for students who have completed the introductory course, Creative Writing/Literary Magazine I. The course builds upon and refines the skills and concepts developed in the introductory course and will feature self-directed projects and student-led discussions with a strong emphasis on the professional writer's craft. Journals, short stories, and poetry will be gathered and developed into lengthier pieces such as a novella, memoir, and scrapbook by the end of the semester. Students are required to submit work for publications both within and outside the school. Creative Writing/Literary Magazine II students will assume the staff leadership roles for the school's online literary magazine, Impressions.

AHS	•	
BHS	•	
CHS	•	
EMHS		

				MCPS		High School C Weighted	Credits	1	Graduation Requirement	
JOURNA	Grade Level 9-12 Prerequisite(s)			Course Code	12000	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Leve				ade of "B" or high	• .	commended ar	nd te	acher		
newspaper technology	urse Description: In this course, student wspaper articles, take photographs, sell a hnology for page design and digital photeach grade. S •			rtisements	, and create page	layouts. Memb	ers of the class	will	use available	
AHS	•									
BHS	•	•								
CHS	•									
EMHS	•									

IOLIDNI	ALICNA II	LISM II		MCPS	12100	High School C Weighted	redits	1	Graduation Requirement
JOURINA	ALISIVI II			Course 12100		English Electi	ve	SOL Test(s) Required	
Grade Lev	/el	10-12	Prerequisite(s)	Journalism	I	•			
	irade Level 10-12 Prerequisite(s ourse Description: In this course, students esponsibilities. Second-year staff members ecision making. This is a publications cours		staff members wi	ll be respons	sible for the ov	erall production o	f the newspape	er an	-
decision r	naking.	11110 10 a pa	Billed trolls course.		, , , , , ,	anca English coa	ice ici cucii gic	auc.	
	e				,	an ca English coa	Too for calculation	iuc.	
AHS	• •					anca English coa	8.0		
AHS BHS CHS	• • •					uneu English cou			

JOURNA	I ICNA II	ıı		MCPS	12110	High School C Weighted	redits	1	Graduation Requirement
JOURNA	ILISIVI II			Course 12110 Code Credit Type English Flective		SOL Test(s) Required			
Grade Lev	⁄el	11-12	Prerequisite(s)	Journalism	II with teacher	recommendation	n is required.		
				II continua ti	ha radijiramani	te at laurnaliem II	and also fulfill	المحطا	archin ralac and
responsib	ilities. T	hird-year st	aff members will l s course. It does i	be responsib	ole for the overa	all production of t	he newspaper		ership roles and mportant decision
responsib	ilities. T	hird-year st	aff members will l	be responsib	ole for the overa	all production of t	he newspaper		•
responsib making. 1	ilities. T	hird-year st	aff members will l	be responsib	ole for the overa	all production of t	he newspaper		•
responsib making. T AHS	ilities. T	hird-year st	aff members will l	be responsib	ole for the overa	all production of t	he newspaper		•

									rable of Conte	
				MCPS		High School (Credits	1	Graduation	
DE JOUR	ΝΔΙΙς	мі		Course	DE1211	Weighted		✓	Requirement	
DL JOOK	IVALIS			Code	521211	Credit Type	English Electi	ve	SOL Test(s) Required	
Dual Enrolled	✓		JEW RIVER	NRCC Course Code(s)	ENG 121 & ENG 122	College Credi	ts	6		
Grade Leve	el	11	Prerequisite(s)	Placemen	nt test and English ecommendation is	•	higher is strong	gly re	commended;	
the course it a fee to N must comp	introd NRCC. olete th	uces stude This is a po ne ENG 12:	ourse is based on the ents to all news medublications course. 1 portion of this cout a fee to NRCC.	e NRCC syll lia, especia It does no t	abus for Introduct lly news gathering t satisfy the requi	ion to Journalis and preparation red English cou	n for print. This	s cou I de.	rse may carry wi	ith
AHS	. IIIay C		t a ree to whee.							
BHS	•	+								
CHS										
EMHS										
LIVIIIS										
				MCPS		High School (Credits	1	Graduation Requirement	
DE JOUR	NALIS	MII		Course Code	DE1212	Credit Type	English Electi	ve	SOL Test(s) Required	
Dual Enrolled	✓		JEW RIVER	NRCC Course Code(s)	ENG 221 & ENG 222	College Credi	ts	6		ı
course con fee to NRC complete t	tinues C. This	the study is a publi G 221 port	ourse is based on the of all news media, ections course. It coion of this course vit a fee to NRCC.	especially no loes not sat	ews gathering and tisfy the required	d preparation fo English course	r print. This cou	urse NO	may carry with it TE: Students mu	а
					1	T			Γ	1
				MCPS		High School C	Credits	1	Graduation	
YEARBOO	OK PR	ODUCTIO	ON I	Course	12150	Weighted			Requirement	
		_		Code		Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Leve		9-12			ecommendation.					
reporting, of the scho	copyrigological colyean cour	hting, cop book. Stu se. It doe	ourse covers basic p by-editing, and adve udents are required s not satisfy the rec	rtising. It p to sell ads a	rovides students v and/or contact bu	with hands-on e sinesses for the	experience in plan purpose of fun	annir d rai	ng and preparationsing. This is a	
AHS	•									
BHS	•									
CHS	•									
FMHS	•	1								

V5455	O1/ DD/	20110710		MCPS	10160	High School C Weighted	Credits	1	Graduation Requirement	
YEARBO	EARBOOK PRODUCTION II			Course 1216 Code	12160	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Lev	rade Level 10-12 Prerequisite(s)				hip in grades 10-1	2 and Media Ai	rts I with recomi	men	dation by course	
photograp the school	hy. Stud	dents will took. This is	ake part in the cor	ncept develourse. It doe	urnalistic principle opment, headline es not satisfy the r	writing, picture	taking, article v	vritir	ng and editing of	f
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

VEADDO		DUCTIO	N. 111	MCPS	12170	High School C Weighted	Credits	1	Graduation Requirement
YEARBU	ARBOOK PRODUCTION III		N III	Course 12170	12170	Credit Type	English Electi	ive	SOL Test(s) Required
Grade Lev	Grade Level 11-12 Prerequisite(s)				hip in grades 10-	12 and Media Ar	ts II with recom	nmer	ndation by course
Course De	scriptio	n: This cou	rse continues the	teacher.	of photojournali	sm principles an	d practices with	n the	use of desktop
publishing yearbook. publicatio arts requir	. Media Editing ns cours	Arts III stup pages and	rse continues the dents will take on teaching fundame	application added resp entals of yea	onsibilities and a arbook design to	ssist in each pha new staff memb	se of the produ ers will also be	requ	n of the school aired. This is a
publishing yearbook. publication arts require AHS	. Media Editing ns cours rement.	Arts III stup pages and	dents will take on teaching fundame	application added resp entals of yea	onsibilities and a arbook design to	ssist in each pha new staff memb	se of the produ ers will also be	requ	n of the school aired. This is a
publishing yearbook. publicatio arts requir	. Media Editing ns cours	Arts III stup pages and	dents will take on teaching fundame	application added resp entals of yea	onsibilities and a arbook design to	ssist in each pha new staff memb	se of the produ ers will also be	requ	n of the school aired. This is a

VEADDOOK DD	/EARBOOK PRODUCTION IV		MCPS	12171	High School Credits Weighted		1	Graduation Requirement
TEARBOOK PR			Course Code	121/1	Credit Type	English Electi	ve	SOL Test(s) Required
Grade Level	11-12	Prerequisite(s)	Membersh teacher.	nip in grades 10-1	12 and Media Ar	ts III with recon	nme	ndation by course
Course Descriptio (editors, editors-ir				•	•	•		•

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	•	

				14050		High School (credits	1	Graduation	
- D 611	REE SHAKESPEARE		MCPS	45404	Weighted			Requirement		
FREE SH	AKESPI	EAKE		Course Code	15181	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Lev	el	10-12	Prerequisite(s)	Teacher Ap	proval	-	l		•	
Course De	scriptio	n: This cou	urse expands theat	re offerings b	by providing a	n opportunity for	exposure to Sha	kesp	earean plays an	d
plays their	own. It		with the set of eacultiple learning abil							e
AHS	•									
BHS										
CHS	•									
EMHS										
EII NA STI	IDV			MCPS Course	14460	High School C	Credits	1	Graduation Requirement	
FILM ST	זטנ			Code	14460	Credit Type	English or		SOL Test(s)	
			_	Couc		Credit Type	Fine Arts Elect	tive	Required	L.
Grade Lev	el	10-12	Prerequisite(s)	Teacher Ap	proval					
requireme AHS	ent.									
BHS										
CHS	•									
EMHS										
				MCPS		High School (Credits	1	Graduation	
SPEECH	FUNDA	MENTAI	LS	Course	13000	Weighted			Requirement	
(FORENS	SICS/DI	EBATE)		Code	13000	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Lev	el		Prerequisite(s)	Teacher Ap	proval					
			urse introduces to 1							
			ese activities they							
			activities. Student							
			rements. Labs will							
			een debate and sp						*	
			ne credit per year,							
			r school hours (sch lish course for each		o Period J. 1	ne course may be	repeated for Cr	euit.	inis course do	25
AHS	, the rec	dilen Eligi	isii course for each	i gi auc.						
BHS		-				e to multiple facto of certified staff,				

Students interested in this course should see their school counselor.

HISTORY / SOCIAL SCIENCES ELECTIVES

PSYCHOLOGY Code Code Code Code Credit Type History / Social Sciences Elective SOL Test(s) Required				MCPS		High School C Weighted	redits	1	Graduation Requirement	
Curde Land 44.42 Burn with (-)	PSYCHOLOGY				29000	Credit Type	Social Science	es	· •	
Grade Level 11-12 Prerequisite(s)	Grade Level	11-12	Prerequisite(s)							

Course Description: This course provides a study of the thought processes and behavior of humans and examines the history of psychology including modern methods of behavioral analysis. Various topics of interest are covered, including the brain and learning styles, biological behavior, human development stages from infancy to elderly, personality types, the effects of sleep and sleep disorders, dream stages, intelligence, and psychological disorders. Through examination of these topics, students gain an indepth understanding of their behavior, as well as the behavior of others.

AHS		
BHS		
CHS	•	
EMHS	•	

	VD.			High School C	credits	1	Graduation	
			MCPS		Weighted		✓	Requirement
AP PSYCHOLO	OGY		Course Code	2902A	Credit Type	History / Social Scienc 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		

			AP ¹	MCPS		High School C Weighted	redits	1	Graduation Requirement	
DE/AP PSY	СНО	LOGY		Course Code	DE2900A	Credit Type	History / Social Scienc Elective	es	SOL Test(s) Required	
Dual Enrolled	✓	Ne Com Co	EW RIVER	NRCC Course Code(s)	PSY 200	College Credi	ts	3	TRANSFER VIRGINIA	′
Grade Level		11-12	Prerequisite(s)	See Below	*	•		•		

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

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

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

AHS		
BHS	•	
CHS		
EMHS		

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

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

					High School C	redits	1	Graduation	
			MCPS		Weighted			Requirement	
PSYCHOLOGY	/SOCIOLO	GY	Course Code	29960	Credit Type	History / Social Scienc 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.

AHS		
BHS	•	
CHS	•	
EMHS		

		MCPS		High School C Weighted	High School Credits Weighted		Graduation Requirement		
DE PSYCHO	LOG	SY/SOCIO	LOGY	Course Code	DE2996	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 Credi	ts	6	TRANSFER VIRGINIA
Grade Level		11-12	Prerequisite(s)	See Below	*	•			ı

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

NOTE: Only PSY 200 is a Passport Transfer course.

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

VIRTUAL D PSYCHOLO SOCIOLOG	GY /	DE2996V	Same as DE2996 except the course is offered virtually.						
AHS	•								
BHS	•	Only the wir							
CHS	•	Only the vir	rtual course is available at this time.						
EMHS	•								

		DE2905	High School Credits		1	Graduation	
	MCPS		Weighted		V	Requirement	
DE PHILOSOPHY	Course Code		Credit Type	History / Social Science Elective	es	SOL Test(s) Required	
Dual Enrolled V Scommuni	RIVER course code(s)	PHI 100	College Credit	ts	3		
Grade Level 11-12 Pre	erequisite(s) NRCC Place	ement 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		High School Credits Weighted		1	Graduation Requirement	
			Course DE Code	DE2999	Credit Type History / Social Science Elective		es	SOL Test(s) Required	
Dual Enrolled	✓	■ NEW RIVER Community College		NRCC Course Code(s)	REL 230	College Credits		3	
Grade Level 11-12 Prerequisite(s)			See Below *	•	•			•	

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

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

AHS		
BHS	•	
CHS		
EMHS		

					High School Credits		1	Graduation	
			MCPS		Weighted			Requirement	
APPALACHIAI	APPALACHIAN HISTORY			29970	Credit Type History / Social Sciences Elective		es	SOL Test(s) Required	
Grade Level	10-12	Prerequisite(s)							

Course Description: This course introduces the Appalachian Mountain region through a survey of its geography, history, cultures, lifestyles, and the arts. A focus will be on local/regional history to provide an awareness and appreciation for the Appalachian region. Basic to the course are focused readings and discussions on Appalachia, including multiple perspectives on a variety of topics that may encompass among them geography, history, culture, folklore, literature, music, the arts, economics, politics, religion, and education.

AHS	•
BHS	•
CHS	•
EMHS	•

			MCPS		High School Credits		1	Graduation Requirement	
					Weighted				
WOMEN'S STU	WOMEN'S STUDIES			29980	Credit Type	History / Social Science Elective		SOL Test(s) Required	
Grade Level	10-12	Prerequisite(s)							

Course Description: This course is an introduction to the interdisciplinary field of Women's Studies through global and multicultural perspectives. It provides an overview of women's experiences and their activism to achieve equality over time and across the world, with attention to differences of gender, race, ethnicity, class, sexuality, and nation. Topics include women's rights movements, gender as a social and historical context, pop culture messages, as well as women in religion and politics and an exploration of ecofeminism.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

					High School C	Credits	1	Graduation	
			MCPS		Weighted			Requirement	
AFRICAN AMI	ERICAN HI	STORY	Course Code	29990	Credit Type	History / Social Scienc Elective	es	SOL Test(s) Required	
Grade Level	10-12	Prerequisite(s)							

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

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

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

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

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

		VD.			High School Credits			Graduation	
			MCPS		Weighted		✓	Requirement	
AP AFRICAN A	AMERICAN	STUDIES	Course Code	2999A	Credit Type	History / Social Scienc 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 African American Studies course. This course examines the diversity of African American experiences through direct encounters with varied sources. Students explore key topics that extend from early African kingdoms to the ongoing challenges and achievements of the contemporary moment. This course foregrounds a study of the diversity of Black communities in the United States within the broader context of Africa and the African diaspora.

AHS		
BHS	•	
CHS	•	
EMHS		

			AD	MCPS		High School Credits		1	Graduation	
DE/AP HUMAN GEOGRAPHY			Course	DE2212A	Weighted		✓	Requirement	1	
			Code	DEZZIZA	Credit Type	History /		SOL Test(s)		
			Code	.ode		Social Scienc	es	Required		
Dual Enrolled	✓	■ None	NEW RIVER		GEO 210 & GEO 220	College Credit	cs	6	TRANSFER VIRGINIA	r
Grade Level		10-12	10-12 Prerequisite(s)		World History & Geography to 1500 AD. Students should be able to read a college-level textbook and write grammatically correct, complete sentences.*					

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

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

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

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

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

MATHEMATICS ELECTIVES

			MCPS		High School C	Credits	1	Graduation	
MATHEMATICS CAPSTONE GRADE 12			Course	31360	Weighted			Requirement	
			Code		Cradit Type	Math		SOL Test(s)	
		Code		Credit Type	IVIALII		Required		
Grade Level	12	Prerequisite(s)	AFDA or A	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	•	

TRIGONOMETRY /			MCPS		High School C	redits	1	Graduation	
				31500	Weighted			Requirement	
ADVANCED ALGEBRA		Course Code	31500	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/AP Precalculus with Trigonometry or a Calculus course. In order to enroll in DE/AP Precalculus or DE/AP Calculus, students must meet all admission and course placement requirements established by NRCC (see pages 9-11 and 194-196) in addition to successful completion of prerequisite courses.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

DE/AP PRECALCULUS w/TRIGONOMETRY				MCPS Course	DE3162A	High School Credits Weighted		1	Graduation Requirement	
				Code	DE3102A	Credit Type	Math		SOL Test(s) Required	
Dual Enrolled	✓	NE Com Co	NEW RIVER		MTH 167	College Credits			TRANSFER VIRGINIA	/
Grade Level		11-12	Prerequisite(s)	NOTE: A into MTH	or Trigonometry/ grade of C or high 161 or higher on I completion of a	er in a prerequi VPT (Satisfactio	site course is re n of MTE 1-9) is			

Course Description: The content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program for the AP Precalculus course and the NRCC syllabus for Precalculus with Trigonometry. Students will study a broad spectrum of function types that are foundational for careers in mathematics, physics, biology, health science, business, social science, and data science. This course fosters the development of a deep conceptual understanding of functions including power, polynomial, rational, exponential, and logarithmic functions. Topics in this course also include systems of equations, trigonometry, and trigonometric applications, including Law of Sines and Cosines, as well as an introduction to conics. The one-semester course will 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 pages 9-11 and 194-196) 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 pages 200-201). This course may carry with it a fee to NRCC.

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

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.

CALCIIII	uc			MCPS Course Code	31995	High School Cre Weighted	edits	1	Graduation Requirement
CALCUL	US					Credit Type	Math		SOL Test(s) Required
Grade Lev	/el	11-12	Prerequisite(s)	Trigonome	try/Advanced	Algebra or DE/AP P	recalculus wit	h Tri	gonometry
	-		•		•	continuity of functice investigated analy	•		
applicatio Technolog	ns, and t	he definite used as a	integral and its ap tool to verify and i	pplications. <i>A</i> nvestigate n	All topics will be nathematical c	continuity of function e investigated analy oncepts and ideas. a dual enrolled Calo	tically, numer		
applicatio Technolog	ns, and t	he definite used as a	integral and its ap tool to verify and i	pplications. <i>A</i> nvestigate n	All topics will be nathematical c	e investigated analy oncepts and ideas.	tically, numer		
applicatio Technolog Note: Thi s	ons, and t gy will be s course	he definite used as a	integral and its ap tool to verify and i	pplications. <i>A</i> nvestigate n	All topics will be nathematical c	e investigated analy oncepts and ideas.	tically, numer		
application Technologe Note: This AHS	ons, and to gy will be s course	he definite used as a	integral and its ap tool to verify and i	pplications. <i>A</i> nvestigate n	All topics will be nathematical c	e investigated analy oncepts and ideas.	tically, numer		

DE ADDITED	DE APPLIED CALCULUS I			MCPS Course DE31998		High School Credits Weighted		1	Graduation Requirement
DE APPLIED CALCULUS I					Credit Type	Credit Type Math		SOL Test(s) Required	
Dual Enrolled	✓	NE Com Co	NEW RIVER		MTH 261	College Credits		3	TRANSFER VIRGINIA
Grade Level		11-12	DE/AP Precalculus w/Trigonometry (with a grade of C or higher) <u>OR</u> Placement into MTH 261 or higher on the VPT-Calculus in addition to successful complet 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 pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

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

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

DE APPLIED CALCULUS II			MCPS	DE31999	High School Credits Weighted			Graduation Requirement		
DE APPLIED	DE APPLIED CALCULUS II			Course DE31999 Code	Credit Type	Math		SOL Test(s) Required		
Dual Enrolled	✓		NEW RIVER		MTH 262	College Credits				
Grade Level 11-12 Prerequisite(s)		DE Applied	d Calculus I (with	a grade of C or	higher) *					

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 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

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

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

DE/AP CALCULUS I (AB)			MCPS	DE3177A	High School C Weighted	Credits	1	Graduation Requirement	
					Credit Type Math			SOL Test(s) Required	
Dual Enrolled	✓	Ne Com Co	NEW RIVER Community College		MTH 263	College Credits 4		TRANSFER VIRGINIA	
Grade Level	evel 11-12 Prerequisite(s)		DE/AP 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 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

AHS	•	Also may be offered as AP Calculus AB (based on the availability of qualified staff at each high school who have the necessary credentials to teach dual-enrolled Mathematics).
BHS	•	DE DE/AP Calculus I (AB) and DE/AP Calculus II (BC) 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
снѕ	•	one school year).
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.

	A I CI II I	AP	MCPS Course	DE3178A	High School Credits Weighted		1	Graduation Requirement	ı	
DE/AP C	DE/AP CALCULUS II (BC)				Credit Type	Math		SOL Test(s) Required		
Dual Enrolled	✓	Cor	EW RIVER mmunity College	NRCC Course Code(s)	MTH 264	College Credits 4				
Grade Leve	Grade Level 11-12 Prerequisite(s) DE/AP Calculus I (AB) with a C or higher *									
	-		itent of this college BC course and the		•	•	•			nt
AHS	•		y be offered as AP or credentials to tea		•	•	ed staff at each l	nigh s	school who have t	ne
внѕ	•	-	E/AP Calculus I (AB) and DE/AP Calculus II (BC) may be offered as stand-alone, year-long or semester courses of the same school year (allowing students to complete both courses in one							
CHS	•	school y			, , , , , , ,	, each (amount) state and the complete soul sources in one				

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.

EMHS

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.

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 Course	32000	High School Credits			Graduation	
COMPLITED SC	IENICE EO	INDATIONS			Weighted			Requirement	
CONIPOTER SC	COMPUTER SCIENCE FOUNDATIONS				Cradit Type	Flootivo		SOL Test(s)	
			Code		Credit Type	Elective		Required	
Grade Level	9-12	Prerequisite(s)	Algebra I						

Course Description: This foundational course places an emphasis on computer programming within the context of broader concepts of computer science. The standards of the course build on the concepts of computer science developed in prior grade levels. The standards provide a transition from block-based programming to a text-based programming language and familiarize the student with developing and executing computer programs. Students will use programmable computing tools throughout the course for exploring and creating computer programs, facilitating reasoning and problem solving, and verifying solutions.

AHS	•
BHS	•
CHS	•
EMHS	•

		VD.	MCDC		High School Credits		1	Graduation	
AP COMPUTER SCIENCE PRINCIPLES			MCPS 24.06A		Weighted		✓	Requirement	
			Course 3186A Code C	Credit Type	Elective		SOL Test(s)		
		Code		Credit Type	Liective		Required		
Grade Level	9-12	Prerequisite(s)	functions require m (x,y) coor students a course bu	Il completion of Al and composition aultiple approache dinate system to r and their advisers allds upon a found be applied through	of functions, an s and collabora epresents poin understand tha ation of mather	nd problem solvi tive efforts. Abi ts in a plane. It i at any significan matical and com	ng st lity t s imp 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)

AP COMPUTER SCIENCE A		MCPS Course	3185A	High School Credits Weighted		1	Graduation Requirement		
AP CONIPOTER	SCIENCE	A	Code	3183A	Credit Type	Math or Science SOL Test(s) Required			
Grade Level	10-12	Prerequisite(s)	Knowledge of basic English and algebra. Comfortable with functions and the concepts found in the uses of function notation. It is important that students and their advisers understand that any significant computer science course builds upon a foundation of mathematical reasoning that should be acquired before attempting such a course.						

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.

Note: This course can be used as a science credit but may NOT be used to meet the discipline requirements for standard and advanced studies diplomas

AHS		
BHS	•	
CHS		
EMHS	•	

PROBABILITY & STATISTICS		MCPS Course Code	31900	High School Credits Weighted			Graduation Requirement			
				Credit Type	Math		SOL Test(s) Required			
Grade Leve	el	10-12	Prerequisite(s)	AFDA or A	AFDA or Algebra II					
), linear	regression	rse is an introduct and random sam		•	• •		•		rs
AHS	•									
BHS	•									
CHS	•			•	_				_	

			NACDC		High School Credits			Graduation	
DATA SCIENCE			MCPS	22100	Weighted			Requirement	
DATA SCIENCE			Course	32100	Credit Type	Math		SOL Test(s) Required	
Grade Level	10-12	Prerequisite(s)	AFDA or A	Algebra II					

EMHS

Course Description: This course provides an introduction to the learning principles associated with analyzing big data. Through the use of open source technology tools, students will identify and explore problems that involve the use of relational database concepts and data-intensive computing to find solutions and make generalizations. Students will engage in a data science problem-solving structure to interact with large data sets as a means to formulate problems, collect and clean data, visualize data, model using data, and communicate effectively about data formulated solutions.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

	^	VD.	MCPS	3192A	High School Credits			Graduation	
AP STATISTICS			Course		Weighted		✓	Requirement	
AP STATISTICS					Cradit Tura	Math		SOL Test(s)	
					Credit Type	Math		Required	
Grade Level	9-12	Prerequisite(s)	Algebra II						
Course Description: The content of this college-level course corresponds to the syllabus of the College Board Advanced Placement									
D		T L	_ 1						

Course Description: The content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program for the AP Statistics course. The course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

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

DE CTATICT	DE STATISTICS			MCPS	DE3192	High School Credits Weighted		1	Graduation Requirement	
DE STATIST				Course Code		Credit Type	Math		SOL Test(s) Required	
Dual Enrolled	V	Signature NRCC NRCC Course MTH 245 & College Credits Code(s)			6					
Grade Level 11-12 Prerequisite(s)				245, completion of For MTH 246, con		,		,		
presents an o	vervi	ew of statis	tics, including des	criptive sta	or Statistics I and S tistics, elementary	probability, pro	obability distrib	ution	s, estimation,	

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).

- 3	 ,
AHS	Not currently offered due to multiple factors, including
BHS	
CHS EMHS	historical student interest, availability of certified staff, and/or current resources.
EMHS	Students interested in this course should see their school counselor.

SCIENCE ELECTIVES

				MCPS		High School C	High School Credits			
EARTH S	CIENCE	II		Course	42200	Weighted			Requirement	
METEOR	OLOGY	/		Code	42200	Credit Type	Earth Scienc		SOL Test(s)	
				code		Credit Type	Lai tii Stieiit	c	Required	
Grade Leve	el	10-12	Prerequisite(s)	re(s) Earth Science I						
include the	e moven	nent of air i	rse explores earth masses, global clir currents, pressure	nate chang	es, the effects of	air pollution, an	d weather-relat	ed p	henomenon. Ar	1
AHS										
BHS										
CHS	•									
EMHS										
		·		MCPS		High School C	Credits	1	Graduation	

				MCPS					0.00000.	
EARTH S	EARTH SCIENCE II OCEANOGRAPHY				Course 42500	Weighted			Requirement	
OCEANO						Cue dit Tune	Fourth Colours		SOL Test(s)	
				Code	Credit Type	Earth Science		Required		
Grade Leve	el	10-12	2 Prerequisite(s) Earth Science I							
Course Description: This course explores the physical and biological processes in Earth's oceans including geography, geology.										
Topics that	will be	studied inc	lude History of Oc	eanograph	y, Navigation, Hy	drologic Cycle, P	late Tectonics, S	Sea F	loor (Bathymetr	y),
Chemistry	of Sea V	Vater, Atm	osphere and the C	ceans, Oce	an Currents, Wa	ves and Tides, Lif	e in the Water,	Life	on the Seafloor,	
Ocean Prod	Ocean Production and Nutrient Cycling, Coasts, Estuaries and Environmental Issues. GIS (Geographic Information Systems)									
activities will be incorporated to study these topics, whenever possible.										
AHS	•									
										_

AIIS	_	
BHS	•	
CHS	•	
EMHS		

EARTH S	CIENC	E II		MCPS	43600	High School Credits Weighted		1	Graduation Requirement
ASTRONOMY		Course 42600 Code	Credit Type	Earth Scienc	SOL Test(s) Required				
Grade Lev	/el	10-12	Prerequisite(s)	s) Earth Science I and Algebra I					
_		-	lar system, and re ctra, and parallax.				•		
classificat	ion, star	,				pportunities to o	200110 1110 111011	c 5.x,	
classificat AHS	•		, ,	,		pportunities to o		c only	
AHS	•		, , , , , , , , , , , , , , , , , , ,	·		pportunities to o		c oxy	
	•			·		pportunities to o			

				42700	High School Credits			Graduation	
			MCPS		Weighted			Requirement	
ENVIRONMEN [®]	TAL SCIEN	ICE	Course Code		Credit Type	Science (Earth Sciend 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	•	

AP ENVIRONM	ENITAL SC	AP	MCPS	42704	High School Credits Weighted		2	Graduation Requirement	
AP EINVIROINIVI	ENTAL SC	IENCE	Course Code	4270A	Credit Type	Science (Earth Science	e)	SOL Test(s) Required	
Grade Level	10-12	Prerequisite(s)	Algebra I, Earth Science, Biology I, and Chemistry I (Chemistry may be taken concurrently with AP Environmental Science)						

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		

BIOLOGY II			MCPS	High School Credits Weighted			Graduation Requirement	
BOTANY/ZOOLOGY			Course Code	 Credit Type	Science		SOL Test(s)	
				C. Cuit 1 ypc	(Biology)		Required	
Grade Level	10-12	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		High School Cr	edits	1	Graduation		
BIOLOGY	' II			Course	43300	Weighted			Requirement	
ANATON	1Y/PH	SIOLOG	<i>(</i>			Credit Type	Science		SOL Test(s)	
				code	Credit Type	(Biology)		Required		
Grade Lev	el	10-12	Prerequisite(s)	Biology I						
Course De	scriptio	n: This cou	rse is designed for	college bo	und students or s	tudents intereste	ed in the health	occ	cupational fields.	
Emphasis v	will be p	laced on th	e structure and fu	unction of the major body systems. Cytology and histology of	f org	gans will be				
investigate	d. Bact	erial and vi	ral infections affe	cting the hu	ıman body will be	addressed as we	ell.			
AHS	•									
BHS										
CHS	•									
EMHS			·							

DE HUMAN ANATOMY /				MCPS	DE 4220	High School Credits Weighted		2	Graduation Requirement	
PHYSIOLOG	PHYSIOLOGY			Course DE4330	DE4550	Credit Type	Science (Biology)		SOL Test(s) Required	
Dual Enrolled	✓	■ NEW RIVER Community College		NRCC Course Code(s)	BIO 141 & BIO 142	College Credit	ts	8		
Grade Level 11-12 Prerequisite(s) DE Biology I and Chemistry I (can be a co-requisite) *										

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 9-11</u> and <u>194-196</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 BIOTECI	DE BIOTECHNOLOGY				DE43201	High School Credits Weighted		1	Graduation Requirement	
DE BIOTECHNOLOGY			Course DE4320	DE43201	Credit Type Science (Biology)			SOL Test(s) Required		
Dual Enrolled	✓	None Con Con	NEW RIVER		BIO 253	College Credi	ts	3		
Grade Level		11-12	Prerequisite(s)	Biology I *						

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

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

AHS		
BHS		
CHS	•	
EMHS		

			A A C D C		High School (Credits	1	Graduation	
BIOLOGY II			MCPS	43201	Weighted			Requirement	
BIOTECHNOLOG	GY		Course Code	45201	Credit Type	Science		SOL Test(s)	
			Coue		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	
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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.

			MCDC		High School C	redits	1	Graduation	
BIOLOGY II			MCPS Course	43400	Weighted			Requirement	
ECOLOGY			Code	43400	Cradit Type	Science		SOL Test(s)	
			Code		Credit Type	(Biology)		Required	
Grade Level	10-12	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	•	

			MCDC		High School C	redits	1	Graduation	
BIOLOGY II			MCPS Course	43500	Weighted			Requirement	
GENETICS			Code		Credit Type	Science		SOL Test(s)	
			Coue		creat Type	(Biology)		Required	
Grade Level		Prerequisite(s)	Biology I						
Course Description	n: This coul	rse explores currer	nt technolog	gical advances in g	genome and pro	teome research	ana	how these	
advances are impo	advances are impacting society through legal, ethical, and social issues. Included in the course are in-depth studies of the principles								
of Mendelian inhe	of Mendelian inheritance, especially in regard to human traits and diseases. An integrated application is on methods for analyzing								
large molecular bi	ology data :	sets and their app	lications to	biological problem	ns, and laborate	ory techniques f	or pr	oduction and	
analysis of genetic	informatio	n. This course intr	oduces cyb	erinfrastructure to	ols, concepts a	nd techniques.			
AHS		N/	ot current	y offered due to	multiple fact	ors including			
BHS				, ,,		, ,			
CHS				t, availability of					
EMHS		Students	intereste	d in this course	snouia see the	rir school coun	selo	or.	
<u> </u>	•								

BIOLOGY	' II			MCPS Course	42222	High School Co Weighted	redits	1	Graduation Requirement
BIOETHI	CS			Code	43202	Credit Type	Science (Biology)		SOL Test(s) Required
Grade Lev	el	10-12	Prerequisite(s)	Biology I					
examinatio	on. Vario	ous topics s		gineering, ste	em cell researc	pics in Biology and h, genetic testing a			-
AHS									
АПЭ									
BHS									
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AHS										
BHS										_
CHS	•									_
EMHS										_
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				MCPS		High School C	redits	2	Graduation	
AP BIOLO	OCY			Course	4370A	Weighted		√	Requirement	
AP DIOL	SIOLOG I		Code	4370A	Credit Type	Science		SOL Test(s)		
				Coue		Credit Type	(Biology)		Required	
Grade Lev	el	10-12	Prerequisite(s)	Biology I a	and Chemistry I	(Chemistry may b	e taken concuri	rently	y with AP Biology	/)
Course De	scriptio	n: The con	tent of this college	e-level cours	se corresponds	to the syllabus of	the College Boa	rd A	dvanced Placeme	er
Program fo	or the A	P Biology co	ourse. The course	is an introd	luctory college-	level biology cour	se. Students cul	tivat	e their	
understan	ding of I	oiology thro	ough inquiry-based	d investigati	ons as they exp	lore the following	topics: evolution	on, c	ellular processes	_
energy and	d comm	unication, g	genetics, informati	on transfer	, ecology, and i	nteractions. Requi	red hands-on la	bora	ntory work will	
emphasize	inquiry	based inve	stigations that pro	ovide stude	nts with opport	unities to apply th	e science pract	ices.		
AHS			_			_				
BHS	•	This cours	se is only offered a	as AP Biolog	y at BHS at this	time.				
CHS										

DE /AD BIO	OC.	ogy AP		MCPS Course	DE4700A	High School Credits Weighted			Graduation Requirement	
DE/AP BIOLOG	.00			Code	Credit Type	Science (Biology)		SOL Test(s) Required		
Dual Enrolled V BIVER Community College		NRCC Course Code(s)	BIO 101 & BIO 102	College Credits			TRANSFER VIRGINIA	•		
Grade Level	Grade Level 10-12 Prerequisite			Biology I and Chemistry I (Chemistry may be taken concurrently with DE Biology) *						r) *

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

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

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

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

CHENNICTOVI	CHEMISTRY I		MCPS	44100	High School C Weighted	Credits	1	Graduation Requirement			
CHEIVIISTRYT			Course 44100 Cr	Credit Type	Science		SOL Test(s)	1			
			Code		Credit Type	(Chemistry))	Required	•		
Grade Level	10-12	Prerequisite(s)	Math cou	irses through Alge	bra II or taking <i>i</i>	Algebra II concu	rrent	tly.			
chemical equatio	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.										
CHEMISTRY I HONORS	4410H	displayed excelle	ence in pre	e Chemistry I curr vious science cour re rigorous and ac	ses and are eag	er to put forth t)		
AHS •											
BHS •											
CHS •	The honors-level course is not offered at CHS.										
EMHS •	The hono	rs-level course is r	The honors-level course is not offered at EMHS.								

CHEMICTRY II			MCPS Course	44200	High School Credits Weighted		1	Graduation Requirement	
CHEMISTRY II Grade Level 11-12			Code	44200	Credit Type	Science (Chemistry)		SOL Test(s) Required	
	Prerequisite(s)	Successful completion of Algebra II & Chemistry I.							

Course Description: This course is intended to extend the concepts, processes and principles of the Chemistry I course. Laboratory experiences are provided -- with emphasis on qualitative and quantitative techniques. Special areas of focus include forensics, organic chemistry, applications of stoichiometry, and the solubility product principle.

AHS	•
BHS	•
CHS	•
EMHS	•

AD CHEMISTRY		AP ²	MCPS	44704	High School Credits Weighted		2	Graduation Requirement	
AP CHEMISTRY			Course Code	4470A	Consulta Tours	Science		SOL Test(s)	
			Code		Credit Type	(Chemistry)		Required	
Grade Level	10-12 Prerequisite(s) Successful completion of Algebra II & Chemistry 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/AP CHEMISTRY		MCPS	DE4470A	High School Credits Weighted		2	Graduation Requirement	✓		
		Course		Cuadit Tuna	Science	l	SOL Test(s)			
			Code		Credit Type	(Chemistry))	Required		
Dual Enrolled	✓	■ NEW RIVER Community College		NRCC Course Code(s)	CHM 111 & CHM 112	College Credits		6	TRANSFER VIRGINIA	
Grade Level		10-12	Prerequisite(s)	Successful completion of Algebra II & Chemistry I *						

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

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

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

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		This course is only offered as AP Chemistry at AHS at this time.
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 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

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

		MCDC		High School Credits			Graduation		
DELACIO I	YSICS I		MCPS	45100	Weighted			Requirement	
PHYSICS			Course		Consider Towns	Science		SOL Test(s)	
			Code		Credit Type	(Physics)		Required	
Grade Level	10-12	Prerequisite(s)	Successful completion of Algebra 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	•	

		VD.			High School Credits		2	Graduation	
AP PHYSICS C: MECHANICS,			MCPS	4571A	Weighted		>	Requirement	
ELECTRICITY & MAGNETISM		Course Code	Credit Type		Science (Physics)		SOL Test(s)		
			Coue		Credit Type	Science Electiv	/e	Required	
Grade Level 10-12 Prerequisite(s)			Calculus	or taking Calculus	s 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.

		υ, <u> </u>	1 0	
AHS				
BHS	•			
CHS				
EMHS				

		VD.		MCPS		High School Credits		2	Graduation	
DE/AD DUV	DE /AD DUVCIOS		. A		DE4571A	Weighted		✓	Requirement	
DE/AP PHYSICS)		Course Code	DE43/1A	Credit Type	Science		SOL Test(s)	
				Code		Credit Type	(Physics)		Required	
Dual			W RIVER	NRCC Course	PHY 201 &	College Credits		8		
Enrolled		■ NEW RIVER Community College	Code(s)	PHY 202	PHY 202		Ü			
Grade Level	e Level 10-12 Prerequisite(s) Calculus or taking Calculus concurrently *									

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

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

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

AHS	•	
BHS		
CHS	•	
EMHS		

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

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

PRINCIPLES OF		Edurnor's STEM			High School Credits Weighted			Graduation Requirement	
TECHNOLOGY I		TO NAME OF THE PARTY OF THE PAR	Course Code	98110	Credit Type	CTE Elective	9	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 /		MCPS	98120	High School Credits			Graduation		
		Course		Weighted			Requirement		
		Code		Cue dit Ture	Science		SOL Test(s)		
APPLIED PHYSICS				Credit Type	(Physics)		Required		
Grade Level	10-12	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			MCPS Course 4703V	47021/	High School Credits Weighted		Graduation Requirement	
(VSCS) VIRTUAL		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 & TECHNOLOGY SCHOLARS PROGRAM (VASTS) VIRTUAL		MCPS	DE4701V	High School Credits		1	Graduation		
		Course		Weighted		✓	Requirement		
		Code DE470	DE4701V	Cradit Type			SOL Test(s)		
		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) VIRTUAL		MCPS Course Code	DE4702V	High School Credits Weighted		Graduation Requirement		
				Credit Type	redit Type			
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

BHS CHS EMHS

			MCPS		High School Credits		1	Graduation		
ART FOUNDATIONS I		Course Code	91200	Weighted	Weighted		Requirement			
				Credit Type	Fine Arts					
Grade Leve		9-12	Prerequisite(s)							
this course, will be instr	the stu uction	ıdent will e in drawing,	rse is designed as xplore art as it rela painting, ceramic with an emphasis	ates to histo s, printmaki	ory, to the enviro ing, and sculpture	nment and to hi e using a variety	s/her own person of both 2-D and	onal d 3-E	experiences. The Omedia. Art style	ere
AHS	•									

ART II INTERMEDIATE			MCPS Course Code	91300	High School Credits Weighted		1	Graduation Requirement	
					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 placement test and present a portfolio to possibly qualify for a higher I					•	:)

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	•	

			MCPS Course Code	91400	High School Credits		1	Graduation Requirement	
ART III ADVANCED INTERMEDIATE		Weighted				ii			
-					Credit Type	Fine Arts			
Grade Level	10-12	Prerequisite(s)	Δrt 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		Students at BHS interested in taking Art III should consider taking Drawing, Painting, or Sculpture.
CHS	•	
EMHS	•	

ART IV ADVANCED				High School Credits		1	Graduation	
ART IV ADVANCED			91450	Weighted			Requirement	
				Credit Type	Fine Arts			
11-12	Prerequisite(s)	Portfolio I	Review					
n: The cou	rse involves intens	e concentra	ation using advan	ced skills in thei	r chosen media	. Ad	vanced critiques	,
ns, and ind	ependent research	n are includ	ed.					
Students	at BHS interested	in taking Ar	t IV should consid	ler taking Drawi	ng, Painting, or	Scul	pture.	
						•		
	11-12 n: The coul	11-12 Prerequisite(s) n: The course involves intensions, and independent research	Code 11-12 Prerequisite(s) Portfolio I n: The course involves intense concentra ons, and independent research are include	Course Code 91450 11-12 Prerequisite(s) Portfolio Review n: The course involves intense concentration using advances, and independent research are included.	CED Course Code Code P1450 Credit Type 11-12 Prerequisite(s) Portfolio Review n: The course involves intense concentration using advanced skills in their ons, and independent research are included.	CED Course Code Code Credit Type Fine Arts 11-12 Prerequisite(s) Portfolio Review n: The course involves intense concentration using advanced skills in their chosen medians, and independent research are included.	CED Course Code Code Code Credit Type Fine Arts 11-12 Prerequisite(s) Portfolio Review n: The course involves intense concentration using advanced skills in their chosen media. Adons, and independent research are included.	CED Course Code 91450 Weighted Requirement 11-12 Prerequisite(s) Portfolio Review 11-12 The course involves intense concentration using advanced skills in their chosen media. Advanced critiques

	ART V PORTFOLIO PRFPARATION			MCPS		High School C	redits	1	Graduation	
ART V PORTFOLIO PREPARATION			Course	91470	Weighted			Requirement		
			Code		Credit Type	Fine Arts				
Grade Level 12 Prerequisite(s)				Portfolio I	Review or Teache	r Recommendat	ion			
will furthe	r develo	op higher le	achieved training in vel skills in art pro- and follow the no	duction est	hetics and criticisr		•			
AHS	•									
BHS	•									
CHS	•									
EMHS	•		•		•	•				

	AINTING					High School C	redits	1	Graduation	
PAINTING				MCPS Course	91401	Weighted			Requirement	
						Credit Type	Fine Arts			
Grade Lev	⁄el	10-12	Prerequisite(s)	Art I & Art	t II					
Course Description: This course follows succe exceptions for students who show both intere individual projects and exploration of painting made.					•				•	
AHS	•									
BHS	•									
CHS	•									
EMHS	•		•		•	•			•	

			MCPS		High School Credits			Graduation	
DRAWING		Course	91402	Weighted			Requirement		
		Code		Credit Type	Fine Arts				
Grade Level	10-12	Prerequisite(s)	Art I & Art II		<u>.</u>				

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	•	

Graduation

1

SCULPTU	IRE			Course	91403	Weighted	ı		Requirement	
				Code		Credit Type	Fine Arts			
Grade Leve	el	10-12	Prerequisite(s)	Art I & Art	:11					
exceptions	for stu	dents who	rse follows succes show both interest ration of sculpture	t and talent	.) It is intended f	or advanced art	students to have	ve m	ore time to purs	
AHS										
BHS	•									
CHS	•									
EMHS										
				MCPS		High School C	redits	1	Graduation	
CERAMIC	CS I			Course	91750	Weighted			Requirement	
0_1				Code		Credit Type	Fine Arts			
Grade Leve		9-12	Prerequisite(s)	l						<u> </u>
explore the technique, held (verba	e proces pinch n al and w	ss of hand b nethod, gla	rse is design as an puilding and wheel ze application, firi develop a visual ap	throwing (i ng techniqu	f supplies allow). es, history of cera	There will be ir amics, and relate	nstruction in sla ed artist studies	b ted	chnique, coil	
AHS	•									
BHS	•									
CHS										
EB 4116	_									
EMHS	•									
EMHS	•							1 4		
				MCPS		High School C	redits	1	Graduation	
CERAMIC				Course	91760	Weighted	T	1	Graduation Requirement	
CERAMIC	CS II			Course Code			redits Fine Arts	1		
CERAMIO	CS II	10-12	Prerequisite(s)	Course Code Ceramics		Weighted Credit Type	Fine Arts		Requirement	
CERAMIC Grade Leve Course Des understand throwing to studied to	el scription ding and echnique	n: This coud to increase es in the quant	Prerequisite(s) rse is a continuation e their knowledge uest to become a roof their understandal appreciation for	Course Code Ceramics I on of Ceramic master at th ding and en	nics I. The focus of s. Further praction le craft. Art Histo hance their masto	Weighted Credit Type of this course is for will help to decry, historical Poery. Art critique	Fine Arts for the student evelop their har tters and Cultur	to ok nd bu	Requirement otain a greater wilding and whee nowledge will be	
CERAMIC Grade Leve Course Des understand throwing to studied to	el scription ding and echnique	n: This coud to increase es in the quant	rse is a continuation of their knowledge uest to become a roof their understand	Course Code Ceramics I on of Ceramic master at th ding and en	nics I. The focus of s. Further praction le craft. Art Histo hance their masto	Weighted Credit Type of this course is for will help to decry, historical Poery. Art critique	Fine Arts for the student evelop their har tters and Cultur	to ok nd bu	Requirement otain a greater wilding and whee nowledge will be	
CERAMIC Grade Leve Course Desunderstand throwing to studied to develop a levelop a l	el scription ding and echnique further higher le	n: This coud to increase es in the quant	rse is a continuation of their knowledge uest to become a roof their understand	Course Code Ceramics I on of Ceramic master at th ding and en	nics I. The focus of s. Further praction le craft. Art Histo hance their masto	Weighted Credit Type of this course is for will help to decry, historical Poery. Art critique	Fine Arts for the student evelop their har tters and Cultur	to ok nd bu	Requirement otain a greater wilding and whee nowledge will be	
Grade Level Course Desunderstand throwing to studied to develop a level of the course	el scription ding and echnique further higher le	n: This coud to increase es in the quant	rse is a continuation of their knowledge uest to become a roof their understand	Course Code Ceramics I on of Ceramic master at th ding and en	nics I. The focus of s. Further praction le craft. Art Histo hance their masto	Weighted Credit Type of this course is for will help to decry, historical Poery. Art critique	Fine Arts for the student evelop their har tters and Cultur	to ok nd bu	Requirement otain a greater wilding and whee nowledge will be	
CERAMIC Grade Leve Course Desunderstand throwing to studied to develop a levelop a l	el scription ding and echnique further higher le	n: This coud to increase es in the quant	rse is a continuation of their knowledge uest to become a roof their understand	Course Code Ceramics I on of Ceramic master at th ding and en	nics I. The focus of s. Further praction le craft. Art Histo hance their masto	Weighted Credit Type of this course is for will help to decry, historical Poery. Art critique	Fine Arts for the student evelop their har tters and Cultur	to ok nd bu	Requirement otain a greater wilding and whee nowledge will be	
Grade Level Course Desunderstand throwing to studied to develop a level of the course	el scription ding and echnique further higher le	n: This coud to increase es in the quant	rse is a continuation of their knowledge uest to become a roof their understand	Course Code Ceramics I on of Ceramic master at th ding and en	nics I. The focus of s. Further praction le craft. Art Histo hance their masto	Weighted Credit Type of this course is for will help to decry, historical Poery. Art critique	Fine Arts for the student evelop their har tters and Cultur	to ok nd bu	Requirement otain a greater wilding and whee nowledge will be	
Grade Level Course Desunderstand throwing to studied to develop a level of the course	el scription ding and echnique further higher le	n: This coud to increase es in the quant	rse is a continuation of their knowledge uest to become a roof their understand	Course Code Ceramics I on of Ceramic master at th ding and en	nics I. The focus of s. Further praction le craft. Art Histo hance their masto	Weighted Credit Type of this course is for will help to decry, historical Poery. Art critique	Fine Arts for the student evelop their har tters and Cultur es will be held (to ok nd bu	Requirement otain a greater uilding and wheel nowledge will be al and written), t	
Grade Level Course Desunderstand throwing to studied to develop a level of the course	el scription ding and echniqu further higher le	n: This coud to increase es in the quant	rse is a continuation of their knowledge uest to become a roof their understand	Course Code Ceramics I on of Ceram of Ceramics master at the ding and en one's own	nics I. The focus of s. Further praction le craft. Art Histo hance their masto	Weighted Credit Type of this course is for the will help to depry, historical Powery. Art critique of others.	Fine Arts for the student evelop their har tters and Cultur es will be held (to ob nd bu ral Kr verb	Requirement otain a greater uilding and wheel nowledge will be al and written), t	
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CERAMIC Grade Leve Course Desunderstand throwing to studied to develop a levelop a le	el scription ding and echnique further higher le • • • • • • • • • • • • • • • • • •	n: This coud to increases in the quevel of visu	rse is a continuation of their knowledge usest to become a roof their understandal appreciation for th	Course Code Ceramics I con of Ceramic master at the ding and en one's own MCPS Course Code Ceramics I	nics I. The focus of s. Further practic in the craft. Art Histo hance their master and for the artical in the a	Weighted Credit Type of this course is for will help to depry, historical Powery. Art critiquent of others. High School County Weighted Credit Type	Fine Arts for the student evelop their har tters and Cultur es will be held (to obtained by the state of the	Requirement otain a greater uilding and wheel nowledge will be al and written), t Graduation Requirement	
CERAMIC Grade Leve Course Des understand throwing to studied to develop a AHS BHS CHS EMHS CERAMIC Grade Leve Course Des well as lear	el scription ding and echnique further higher le • • • • • • • • • • • • • • • • • •	n: This coud to increases in the quevel of visu	rse is a continuation of their knowledge usest to become a roof their understandal appreciation for th	Course Code Ceramics I con of Ceramic master at the ding and en one's own MCPS Course Code Ceramics I	nics I. The focus of s. Further practic in the craft. Art Histo hance their master and for the artical in the a	Weighted Credit Type of this course is for will help to depry, historical Powery. Art critiquent of others. High School County Weighted Credit Type	Fine Arts for the student evelop their har tters and Cultur es will be held (to obtained by the state of the	Requirement otain a greater uilding and wheel nowledge will be al and written), t Graduation Requirement	
CERAMIC Grade Leve Course Desunderstand throwing to studied to develop a levelop a le	el scription ding and echnique further higher le • • • • • • • • • • • • • • • • • •	n: This coud to increases in the quevel of visu	rse is a continuation of their knowledge usest to become a roof their understandal appreciation for th	Course Code Ceramics I con of Ceramic master at the ding and en one's own MCPS Course Code Ceramics I	nics I. The focus of s. Further practic in the craft. Art Histo hance their master and for the artical in the a	Weighted Credit Type of this course is for will help to depry, historical Powery. Art critiquent of others. High School County Weighted Credit Type	Fine Arts for the student evelop their har tters and Cultur es will be held (to obtained by the state of the	Requirement otain a greater uilding and wheel nowledge will be al and written), t Graduation Requirement	
CERAMIC Grade Leve Course Des understand throwing to studied to develop a le AHS BHS CHS EMHS CERAMIC Grade Leve Course Des well as lead AHS	el scription ding and echnique further higher le • • • • • • • • • • • • • • • • • •	n: This coud to increases in the quevel of visu	rse is a continuation of their knowledge usest to become a roof their understandal appreciation for th	Course Code Ceramics I con of Ceramic master at the ding and en one's own MCPS Course Code Ceramics I	nics I. The focus of s. Further practic in the craft. Art Histo hance their master and for the artical in the a	Weighted Credit Type of this course is for will help to depry, historical Powery. Art critiquent of others. High School County Weighted Credit Type	Fine Arts for the student evelop their har tters and Cultur es will be held (to obtained by the state of the	Requirement otain a greater uilding and wheel nowledge will be al and written), t Graduation Requirement	
CERAMIC Grade Leve Course Desunderstand throwing to studied to develop a levelop a le	el scription ding and echnique further higher le • • • • • • • • • • • • • • • • • •	n: This coud to increases in the quevel of visu	rse is a continuation of their knowledge usest to become a roof their understandal appreciation for th	Course Code Ceramics I con of Ceramic master at the ding and en one's own MCPS Course Code Ceramics I	nics I. The focus of s. Further practic in the craft. Art Histo hance their master and for the artical in the a	Weighted Credit Type of this course is for will help to depry, historical Powery. Art critiquent of others. High School County Weighted Credit Type	Fine Arts for the student evelop their har tters and Cultur es will be held (to obtained by the state of the	Requirement otain a greater uilding and wheel nowledge will be al and written), t Graduation Requirement	

MCPS

High School Credits

PHOTOGRAPHY I			MCPS		High School Credits			Graduation	
			Course	91900	Weighted			Requirement	
		Code		Credit Type	Fine Arts				
Grade Level	9-12	Prerequisite(s)	Art I (regu	uired), 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 0		
AHS	•	
BHS		
CHS		
EMHS		

AD CTUDIO ADT	-	ND			High School Credits			Graduation	
AP STUDIO ART			Course	9148A	Weighted		✓	Requirement	
2D DESIGN			Code		Credit Type	Fine Arts			
Grade Level	11-12	Prerequisite(s)	Portfolio Review or Teacher Recommendation						

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 °		MCPS		High School Credits			Graduation	
AP STUDIO ART			Course	9149A	Weighted		✓	Requirement	
3D DESIGN			Code		Credit Type	Fine Arts			
Grade Level 11-12 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 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		

				1		T			T	
AP STUD	IO ART	Γ	AP	MCPS		High School C	redits	1	Graduation	
DRAWIN			2 1	Course	9150A	Weighted		✓	Requirement	-
		1	1	Code		Credit Type	Fine Arts			
Grade Lev	_	11-12	Prerequisite(s)	Teacher a						
	-		Studio Art Program				_			gh
	-		ge credit. Having a		_					
			s will use visual pro g portfolio. In orde		_	•	_	_	-	۸D
			e college credit, the		_				•	
· -	-	•	udio Art requires a			•	_	-	•	•
AHS	•			J						
BHS	•									
CHS	•									
EMHS										
				MCPS		High School C	redits	1	Graduation	
DE ART/		APPREC	IATION	Course	DE9197V	Weighted		✓	Requirement	
VIRTUAL	•			Code		Credit Type	Fine Arts			
			_	NRCC		C. Cante 1 ypc				
Dual	✓		EW RIVER	Course	ART 100 &	College Credi	ts	6		
Enrolled		Coi	mmunity College	Code(s)	MUS 121					
Grade Lev	el	11-12	Prerequisite(s)	See Below	/ *					
and Wester language of lives and in develops t within the	ern cultu of music nfluentia echniqu context to enrol	re. Conter through a al creative es for liste of evolvin	tmaking, and paint is covered chronen introduction to be individualities, discending analytically are societal structure ourse, students much in addition to such the statement of the statement in addition to such the statement in the statement	ologically and asic elemer covering repart critically. es.	nd/or thematical nts, forms and strong oresentative wor The historical do I admission and	lly. The MUS 121 yles across time. ks and milestone evelopment and course placemer	portion of the It acquaints stu is in western so significance of a street requirements	cour dent ciety art m	se explores the s with composer , as well as usic are explore	rs' d C
AHS	•									
BHS	•									
CHS	•									
EMHS	•									
				ı				1	T	
				MCPS		High School C	redits	1	Graduation	
MUSIC H	IISTOR	Y/LITERA	ATURE	Course	92210	Weighted			Requirement	-
		I	/)	Code		Credit Type	Fine Arts			
for the stu student wi	scription dent wh ill study	no does no music as it	Prerequisite(s) a non-performance t plan to continue to c relates to his/her an will include comp	further stuc personal ex	ly in music. It is sperience and en	not a prerequisit vironment. Stud	e for other art o ents will study a	or mu all pe	usic courses. The eriods of music f	e rom
AHS				Not curre	ntly offered due	to multiple facto	ors including			
BHS			historical st			of certified staff,		resn	ources.	
CHS						e should see thei				

EMHS

MUSIC TUFORY		MCPS		High School C	redits	1	Graduation		
MUSIC THEO	MUSIC THEORY			Course 92250 Weighted				Requirement	
			Code		Credit Type	Fine Arts			
Grade Level	9-12	Prerequisite(s)	Must be a	ble to read music					
Course Descript	on: This cou	rse provides stude	ents with an	in-depth study o	f the materials a	and structures o	f mu	ısic including: fo	rm
and analysis, ba	sic harmony a	and theory, and co	mpositiona	l techniques. Stu	dents will be giv	en the opportu	ınity	to compose.	
AHS									
BHS •									
CHS •									
EMHS	MHS								
Course Descript and analysis, base AHS BHS CHS	on: This cou	rse provides stude	ents with ar	in-depth study o	f the materials a			_	rm

				MCPS		High School Cr	edits	1	Graduation	
BEGINNI	NG BA	ND	Course 923	92320	Weighted			Requirement		
				Code		Credit Type	Fine Arts			
Grade Lev	el	9-12	Prerequisite(s)	•						
	•	•			•	rformance. This clast attend scheduled re	_			
AHS										
BHS										
CHS								,		
EMHS	•		·		_	·			·	

				MCPS		High School C	redits	1	Graduation			
INTERM	EDIATE	BAND		Course	92330	Weighted			Requirement			
				Code		Credit Type	Fine Arts					
Grade Lev	el	9-12	Prerequisite(s)	Two years	s of instrumental	music						
	-		diate Band is a per e at least two (2) y									
AHS												
внѕ	•		ntermediate Band is a performing group composed mainly of 9th and 10th grade students. Students must ave a minimum of two years of instrumental experience. Performances include three school concerts and									
CHS	•				red in concert ba	nd include conc	ert literature, ba	sic 1	theory, and history			
EMHS	•	open to a their midd to moder transposit concerts of necessary	district concert festival. Materials covered in concert band include concert literature, basic theory, and history 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 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 C	redits	1	Graduation
ADVAN	CED BA	ND		Course	92340	Weighted			Requirement
				Code		Credit Type	Fine Arts		
Grade Lev	/el	9-12	Prerequisite(s)						
Course Do	escriptio	n:							
AHS	•	to all stud middle so modern p transposi concerts necessary	dents who have at hool director. Musopular music and tion, and additions each school year, we have at the school year, we have a school year.	least two (in usic will ran marching not all music the various come The student least two least two least two least	2) years of instruige widely in style nusic. Additional eory may be incluingetitions, footbatis required to at	mental experience from classics an materials and to Ided as appropria Ill games, parade	ce or the recomed serious conceptics such as minate. Performances, and other ac	mer ert b inor ces i tiviti	and literature to scales, nclude several
BHS	•		site: Intermediate	· ·	is required.				
CHS	•	Prerequis Reading. musicians standard	site: Audition only Students may be ship techniques wi of musical exceller and any other sche	Auditiondmitted tobe explorate.Particina	this class only the ed in a full ensen pation and atten	nrough a success oble setting. Stu dance is required	ful audition. M dents will be he d for District Ba	ore a eld to nd F	advanced the highest estival, the spring
EMHS	•	Advanced to all stud middle so modern p transposi concerts of necessary	I Band is a perform dents who have at hool director. Mu popular music and tion, and additions each school year, v	ning group (least two (; usic will ran marching n al music the various com The studen	composed of inst 2) years of instru ge widely in style nusic. Additional eory may be inclu petitions, footba t is required to at	rumental studen mental experience from classics an materials and to ided as appropria all games, parade	nts. Membershi ce or the recome ad serious conce opics such as mi ate. Performan es, and other ac	p in mer ert b nor : ces i tiviti	this group is open idation of their and literature to scales, nclude several

	GUITAR			MCPS		High School Cre	edits	1	Graduation
GUITAR			Course	92450	Weighted			Requirement	
		Code		Credit Type	Credit Type Fine Arts				
Grade Lev	el	9-12	Prerequisite(s)						
Course De	scrintin	n. This cou	rse is for heginnin	o onitar stud	ents No prior	evnerience is requ	ired The cou	rse c	overs hasic musi
			rse is for beginning as and symbols.	g guitar stud	ents. No prior	experience is requ	ired. The cou	rse c	overs basic musi
reading, c				g guitar stude	ents. No prior	experience is requ	ired. The cou	rse c	overs basic musi
reading, c				g guitar studo	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

CRAALLI	NICEDII		ENICENADLE /	MCPS		High School C	redits	1	Graduation
			ENSEMBLE /	Course	92520	Weighted			Requirement
PERCUS	PERCUSSION TECHNIQUES					Credit Type	Fine Arts		
Grade Lev	⁄el	9-12	Prerequisite(s)	Percussion	n students OR b	oand director's app	roval.		
Symphoni	c Band.	Additionally		required to	participate in s	participate in all co scheduled perform			
AHS	•								
BHS	•								
· · · · · · · · · · · · · · · · · · ·							·		·
CHS	•								

SMALL E	NICENAL	DIE /		MCPS		High School C	redits	1	Graduation	
		-		Course	92960	Weighted			Requirement	
COLOR G	COLOR GUARD TECHNIQUES			Code		Credit Type	Fine Arts			
Grade Leve	Grade Level Prerequisite(s)			Percussio	n students OR ban	nd director's app	proval.			
Course De	Course Description: Color Guard Techniques				ring the fall term t	for students 9-1	.2. Students en	rolle	d in this class wil	lbe
considered	d a mem	ber of the I	Marching Band an	d will be re	quired to participa	ate in all footba	Il games, compe	etitio	ns, and activities	5
scheduled	for Mar	ching Band	. Focus of this clas	s will be or	color guard techr	niques and perfo	ormance.			
AHS			N/a	ot current	ly offered due to	multiple fact	ors including			
BHS									200111000	
CHS				ent interest, availability of certified staff, and/or current resources.						
EMHS	EMHS Studen				s interested in this course should see their school counselor.					

			MCPS		High School Cr	edits	1	Graduation	
PIANO L	PIANO LAB I			Course 92550	Weighted			Requirement	
				Code		Credit Type	Fine Arts		
Grade Lev	/el	9-12	Prerequisite(s)	Students sh	ould have no	previous piano exp	erience.		
Understa	nding of	piano keybo		ositive attitu	ide and contin	used in music readir nuing interest in mu ruments.	•		•
AHS	•								
BHS	•								
CHS	•		_						·
EMHS	•		•			•			•

PIANO LAB II				MCPS Course	92551	High School C Weighted	redits	1	Graduation Requirement
I IAITO L	יו עם			Code		Credit Type	Fine Arts		
Grade Lev	el	10-12	Prerequisite(s)	Students i average.	must have succes	ssfully completed	Unit 8 in Pianc	Lab	I with an "A"
accepted i	nto the	class by aud	s will continue inst dition. Students au Piano Lab I. Class	Iditioning m	nust be able to pe	erform at a comp	arable skill leve		•
AHS	•								
BHS	•		<u>-</u>	·	·	·	·		·
CHS	•								
	1	1							

SMALL VOCAL ENSEMBLE /		MCPS		High School C	redits	1	Graduation		
		Course	92800	Weighted			Requirement		
CHORALE	CHORALE		Code		Credit Type	Fine Arts			
Grade Level 10-12 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	•	

SMALL VOCAL ENSEMBLE / MADRIGALS			MCPS Course	92802	High School Credits Weighted		1	Graduation Requirement	
			Code		Credit Type	Fine Arts			
Grade Level	10-12	Prerequisite(s)	One year of Chorus/Band/or other vocal (musical) experience and successful audition.						
Course Description: Madrigals is strictly limited to students in grades 10-12 by audition. Performances include at least two school concerts plus many community performances. The student will read and perform music in four to eight parts, using advanced vocal and choral techniques. Repertoire will include music mainly from the Renaissance Period. All students in this group are									

eligible to audition for Senior High District Chorus. Auditions for Madrigals are held in the Spring.

AHS
BHS

CHS

EMHS

Grade Level

10-12

CAMALL MOCAL FAICEARDIE /	MCPS		High School C	redits	1	Graduation	
SMALL VOCAL ENSEMBLE /	Course Code	92803	Weighted			Requirement	
CHAMBER ENSEMBLE			Credit Type Fine Arts				

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.

Prerequisite(s) Audition Only

AHS	•	No audition is necessary
BHS		
CHS	•	
EMHS		

			MCPS		High School C	High School Credits		Graduation		
SMALL VOCAL ENSEMBLE II		Course 92804		Weighted			Requirement			
		Code	Credit Type	Fine Arts						
Grade Leve	el	10-12	Prerequisite(s)	Teacher Approval Required						
grades 10-	12. Stud	dents will w	is an extensive stu ork on presenting excellent vocal ar	quality pu	blic performances					nt
AHS									·	
BHS			·	<u>'</u>	·	·			·	
CHS	•									
EMHS	•									
						·			*	

60.4411.14	2041 511051401	- 1	MCPS		High School Cre	edits	1	Graduation
	OCAL ENSEMBI	LE /	Course 92805		Weighted	Weighted		Requirement
SWING C	HOIK		Code		Credit Type	Fine Arts		
Grade Leve	el 10-12	Prerequisite(s)						·
Course Des	cription:							
AHS								
BHS								
CHS								
EMHS	grades ni pass an a technique be studie music, po performa	ne through twelve udition to ascertai e for the advanced d. This performan op, jazz and Broadv ance instruction. T as to perform, and	. Ninth grade n the level of l choral stude ace choir stud way. Choreog he class is pe	e students show performance ent, and music lies literature graphy as appr rformance ori	ould have had signifg. Sight singing the to the only building on	ficant participa full vocal rang high school cl ds of music, a ces is included ree school con	ation e, ut horu s we as a	s experiences, will Il as contemporary part of s, community

	INTERMEDIATE CHORUS / CONCERT CHOIR			MCPS Course	92850	High School C Weighted	redits	1	Graduation Requirement	
CONCER	I CHO	IK		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 sir jor concert nearsals. Th chniques. F	ng and learn the b s a year, occasion e student will beg Repertoire will inc	pasic concepts of al assembly prog gin to learn to re llude music from	f music. It is a p grams and/or co ad music and w a all major perio	erfo omm vill sin ds, s	rmance class and unity events, and ng music using tyles, and	t
BHS	•	class othe will include may requ	Concert Choir is a non-audition chorus open to any student in grades 9-12. No prerequisite is required for the class other than a genuine desire to sing and learn the basic concepts of music. It is a performance class and will include at least two major concerts a year, occasional assembly programs and/or community events, and may require some extra rehearsals. The student will begin to learn to read music and will sing music using appropriate vocal/choral techniques. Repertoire will include music from all major periods, styles, and							
CHS	•			choir will b	e placed in this o	lass until after a	auditions.			
EMHS	•	class othe will include may requ	All students registering for choir will be placed in this class until after auditions. Concert Choir is a non-audition chorus open to any student in grades 9-12. No prerequisite is required for the class other than a genuine desire to sing and learn the basic concepts of music. It is a performance class and will include at least two major concerts a year, occasional assembly programs and/or community events, and may require some extra rehearsals. The student will begin to learn to read music and will sing music using appropriate vocal/choral techniques. Repertoire will include music from all major periods, styles, and languages							

THEATR	THEATRE I INTRODUCTION TO THEATRE		MCPS High School Credits Weighted		redits	1	Graduation Requirement		
INTROD			ATRE	Course Code	14100	Credit Type	Fine Arts		SOL Test(s) Required
Grade Lev	Grade Level 9-12 Prerequisite(s) An enthusiasm for performance.								
course em	nphasize	s foundatio		emble work,		valuate dramatic l opment and provid			
	•								
AHS									
AHS BHS	•								
	•								

THEATRE II DRAMATIC LITERATURE			MCPS	14200	High School Credits			Graduation	
					Weighted			Requirement	
			Course Code		Credit Type	Fine Arts		SOL Test(s)	
& THEATRE HISTORY		Credit Type			rille Alts		Required	1	
Grade Level	10-12	Prerequisite(s)	Theatre I or Teacher Approval (based on student's experience)						

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 INTERMEDIATE ACTING & PLAYWRITING		MCPS	14230	High School Credits Weighted			Graduation Requirement	
			Course Code	14230	Credit Type	Fine Arts		SOL Test(s) Required
Grade Level	11-12	Prerequisite(s)	Theatre I & II or Teacher Approval (based on student's experience)					

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 IV ADVANCED ACTING & DIRECTING		MCPS Course 14300 Code	14200	High School Credits Weighted		1	Graduation Requirement	
			14300	Credit Type	Fine Arts		SOL Test(s) Required	
Grade Level	11-12	Prerequisite(s)	Theatre III or Teacher Approval (based on student's experience)					

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		

TECHNICAL THEATRE I		MCPS	14350	High School C	High School Credits		Graduation			
		Course		Weighted			Requirement			
		Code		Credit Type	Fine Arts		SOL Test(s) Required			
Grade Leve	el	10-12	Prerequisite(s)	None (Tea	acher Approval ba	sed on student	's experience)			
Course Des	scription	n: The stan	dards for Technic	al Theatre h	nelp students app	ly and expand ti	heir knowledge	of th	eatre design,	
	-		t. Students develo			•	_		_	ing
on fine arts	s and ot	her discipli	nes, they work ind	lividually ar	nd collaboratively	to explore the i	nterrelated con	npon	ents of design,	_
production	, and m	anagemen	t. Students practic	e safe oper	ating procedures,	including the c	are, maintenan	ce, a	nd storage of too	ls,
materials,	and equ	ipment.								
AHS										
BHS	•									
CHS										
EMHS										
						T			I .	
				MCPS		High School C	credits	1	Graduation	
TECHNIC	AL THE	ATRE II		Course	14360	Weighted	T		Requirement	
				Code		Credit Type	Fine Arts		SOL Test(s)	
							7 65		Required	
Grade Leve		10-12	Prerequisite(s)							
Course Des	scription	1: This cou	rse is a continuation	on of Techn	ical Theatre I, pro	oviding students	with further st	udy (of set	
design/con	structio	n, lighting	design, sound effe	cts, theater	r acoustics, scene	painting, prope	rty managemer	nt, co	stume design,	
stage orga	nization	, technical	direction and prod	duction, and	the use of comp	uter application	is to support the	ese f	unctions. Studer	nts
will apply a	artistic, t	echnical, a	nd dramatic princ	iples, as we	ll as design techn	iques as tools to	communicate	dran	natic information	,
ideas, moo	ds, and	feelings.								
AHS										
BHS	•									
CHS										
EMHS										
								1	I	
				MCPS	14480	High School Credits		1	Graduation	
MUSICAL	. THEA	TRE		Course		Weighted			Requirement	
				Code		Credit Type	Fine Arts		SOL Test(s)	
			I			,,			Required	
Grade Leve		10-12	Prerequisite(s)	Teacher A	• •					
	-		rse expands theat	_		-				
•			musical theatre.				sical experience	and	expertise rather	
than focusi	ing on a	cting. This	course may be us	ed to fulfill	the fine arts req	uirement.				
AHS	•									
BHS	•									
CHS	•									
EMHS										
				MCPS		High School C	Credits	1	Graduation	
STUDIO	STUDIO THEATRE			Course	14310	Weighted			Requirement	
310010			Code	14310	Cradit Type	Fine Arts		SOL Test(s)		
				Code		Credit Type	Fille Ai ts		Required	
Grade Level 9-12 Prerequisite(s)			Audition (Only						
Course Des	crintin	• This cou								
	cription	i. 11113 COU	rse is for students	participatin	ng in the VHSL On	e Act Competiti	on.			
AHS	scription	i. 11113 COU	rse is for students	participatir	ng in the VHSL On	e Act Competiti	on.			
AHS BHS	•	1. 11113 COU	rse is for students	participatir	ng in the VHSL On	e Act Competiti	on.			
BHS	-	i. 11113 COU	rse is for students	participatir	ng in the VHSL On	e Act Competiti	on.			
BHS CHS	-	i. This cou	rse is for students	participatir	ng in the VHSL On	e Act Competiti	on.			
BHS	-	i. This cou	rse is for students	participatir	ng in the VHSL On	e Act Competiti	on.			

CAREER & TECHNICAL EDUCATION ELECTIVES

Corps of Cadets

CORPS OF CADETS I		MCPS Course Code 79131 (Part 1 79132 (Part 2	70121 (Dart 1)	High School Credits Weighted		1	Graduation Requirement	
								79131 (Part 1) 79132 (Part 2)
			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.

CORPS OF CADETS II		MCPS Course Code 79161 (Part 1) 79162 (Part 2)		High School Credits Weighted		1	Graduation
			70161 (Dart 1)				Requirement
			79161 (Part 1) 79162 (Part 2)	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Level	10-12	Prerequisite(s)	Corps of 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	
CORPS OF CADETS III		MCPS	79181 (Part 1) 79182 (Part 2)	Weighted			Requirement	
		Course Code		Credit Type	СТЕ		CTE Credential Test(s) May Be Required	
Grade Level	11-12	Prerequisite(s)	Corps of	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.

				79201 (Part 1) 79202 (Part 2)	High School Credits			Graduation
			MCPS		Weighted			Requirement
CORPS OF CADETS IV		Course Code	Credit Type		СТЕ		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.

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

EMHS

Grade Level

9-12

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	
HORTICII	HORTICULTURAL SCIENCE		`F	MCPS		Weighted			Requirement	
& PRACT		AL SCILIVO	·L	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 Section Enrollme	floriculture	-	_			•	
AHS	•									
BHS	•									
CHS	•		·						·	

	High School Credits		1	Graduation		
GREENHOUSE PLANT PRODUCTION & MANAGEMENT	MCPS	80350	Weighted			Requirement
	Course Code		Credit Type	СТЕ		CTE Credential Test(s) May Be

Course Description: Instruction is provided in growing greenhouse crops; producing and maintaining turf grass; and operating a flower shop and garden center. The student will have the opportunity to take the certification tests for Commercial Pesticide

Applicator's license and Greenhouse Grower's license. VDOE Maximum Section Enrollment Applies.

Prerequisite(s) | Horticulture Sciences & Practices

AHS		
BHS	•	
CHS		
EMHS	•	

						High School C	redits	1	Graduation		
				MCPS		Weighted			Requirement		
FLORICU	LTURE			Course Code	80380	Credit Type	CTE		CTE Credential Test(s) May Be Required		
Grade Leve	el	9-12	Prerequisite(s)			·					
floriculture	industr	ies. Stude	rse will help devel nts will receive ins nop management.	truction an	d have hands-or	n activities in flora	al design, flowe		•		
AHS											
BHS											
CHS	•										
EMHS	•										
				MCPS		High School C	redits	1	Graduation Requirement		
FLORAL [DESIGN			Course Code	80550	Credit Type	СТЕ	СТЕ		CTE Credential Test(s) May Be Required	
Grade Leve	el	10-12	Prerequisite(s)								
			n retail floriculture nd handling of fres		will learn to ide	ntify floral materi	al and supplies	com	monly found in		
CHS	•										
EMHS	•										
				1.4CDC		High School C	redits	1	Graduation		
LANDSCA	APING	I		MCPS Course Code	80360	Weighted Credit Type	СТЕ		Requirement CTE Credential Test(s) May Be Required		
Grade Leve		10-12	Prerequisite(s)								
developing floriculture	the ned , landsc	cessary kno ape design	ping is designed as wledge, skills, hab , greenhouse oper ollment Applies.	its, and att	itudes for entry- sery plant produ	level employment ction and turf ma	t and advancer nagement.			1	
BHS CHS EMHS			historical stude	nt interest	t, availability o	to multiple factory for the staff, see the should see the	and/or curre				

					High School Credits		1	Graduation	
			MCPS		Weighted			Requirement	
LANDSCAPING II		Course Code	80390	Credit Type	СТЕ		CTE Credential Test(s) May Be Required		
Grade Level	de Level 11-12 Prerequisite(s) Landscaping I								
Course Description: In this course, students examine contemporary garden design from a historical perspective. Commercial and									
high-end residenti							les. L	andscape project	ts
are approached fr	om an entre	epreneurial aspect	. VDOE M	aximum Section E	nrollment Appli	es.			
AHS		N/	ot current	ly offered due to	multiple fact	ors including			
BHS								200111000	
CHS			ent interest, availability of certified staff, and/or current resources. ts interested in this course should see their school counselor.						
EMHS		Students							

INTRODUCTION TO ANIMAL SYSTEMS			80080	High School Credits			Graduation	
		MCPS		Weighted			Requirement	
		Course Code		Credit Type	СТЕ		CTE Credential Test(s) May Be Required	
Grade Level	9-10	Prerequisite(s)						

Course Description: Students develop competency in each of the major areas of the animal systems career pathway including animal nutrition, reproduction, breeding, care, management, and safety. Students also learn agricultural mechanics skills applicable to animal systems. Contextual instruction and student participation in co-curricular career and technical student organization (CTSO) activities will develop leadership, interpersonal, and career skills. High-quality work-based learning (HQWBL) will provide experiential learning opportunities related to students' career goals and/or interests, integrated with instruction, and performed in partnership with local businesses and organizations. VDOE Maximum Section Enrollment Applies.

AHS	•	
BHS		
CHS	•	
EMHS		

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

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	•	

	VETERINARY SCIENCE			MCPS		High School Cre	edits	1	Graduation	
						Weighted			Requirement	
VETERINA	ARY SO	CIENCE		Course Code	80880	Credit Type	CTE	CTE Credential Test(s) May Be Required		
Grade Leve	evel 10-12 Prerequisite(s) Small Animal Care									
pathology.	It will a	also include		nimal care i	ndustry, laborat	nimal first aid and ory procedures, nu	•		.	
AHS	•									
BHS	•									
CHS	•									
EMHS	•									

FOLUME I	EQUINE MANAGEMENT		MCPS		High School Cr Weighted	edits	1	Graduation Requirement	
& PRODU				Course 80800 Credit Type CTE			CTE Credential Test(s) May Be Required		
Grade Leve	ade Level 9-12 Prerequisite(s)								
evaluation	and sho	owmanship		ructional are	eas. Course cor	ntent also includes		-	oduction, training, s, equipment, and
AHS	•								
BHS	•								
CHS	•							•	
EMHS	•				_				

						High School C	redits	1	Graduation
INTROD	LICTIO	N TO		MCPS		Weighted			Requirement
NATURA				Course Code	80400	Credit Type	Type CTE Test(s) N		CTE Credential Test(s) May Be Required
Grade Lev	⁄el	9-12	Prerequisite(s)	•					
knowledg conservat	e of tree ion, soil	identificati properties,	on and forest mea	surement ar	nd manageme	ewards of their nat nt, Virginia fish and on of natural resou	d wildlife mana		
VDOE Ma	•								
AHS				•					•
AHS	•								
	•								

FIGUEDII	FISHERIES & WILDLIFE		MCPS		High School C Weighted	redits	1	Graduation Requirement			
MANAG				Course Code	80410	Credit Type	СТЕ		CTE Credential Test(s) May Be Required		
Grade Lev	el	9-12	Prerequisite(s)	Introduction to Natural Resources							
and aquat	ics and	of their hab	eries and Wildlife itats. Content add Icluded. VDOE Ma	ressing the i	ssues related to	endangered spe			agement of wildlife ons that protect		
AHS	•										
BHS	•										

					High School C	redits	1	Graduation
SMALL ENGINE REPAIR I			MCPS		Weighted			Requirement
			Course 808	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.

CHS EMHS

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

		MCPS	80821	High School Credits Weighted			Graduation Requirement	
ADVANCED SMALL ENGINES REPAIR				Course Code	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Level	10-12	Prerequisite(s)	Small Engi	nes 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 Crada Laval 10.13 Brayaguisita(s)			MCPS Course Code		High School Credits Weighted			Graduation Requirement			
BUSINESS					61310	Credit Type	СТЕ		CTE Credential Test(s) May Be Required			
Grade Level 10-12 Prerequisite(s)												
	Course Description: Students examine the foundations of the American legal system. They explore economic and social concepts as they relate to legal principles and to business and personal law.											
AHS												
BHS	•											
CHS	•											
EMHS	•											

				MCPS		High School Credits			Graduation
DE BUSINESS MANAGEMENT		Course	DE6135	Weighted			Requirement		
			Code		Credit Type	CTE		CTE Credential	
Dual Enrolled	✓	Ne Con Co	NEW RIVER Community College		BUS 100	College Credits		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 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 <u>pages 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

BUSINESS MANAGEN	MANAGEMENT		This course may be taken by students who are not eligible to take a dual enrolled course							
AHS										
BHS	•	Only the 61350 course is offered at BHS (NOT DE).								
CHS	•	Only the 61350 course is offered at CHS (NOT DE).								
EMHS	•	Only the	51350 course is offered at EMHS (NOT DE).							

			MCPS	High School Credits Weighted			Graduation
							Requirement
ACCOUNTING			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 Cr	edits	1	Graduation
				MCPS Course Code	63210	Weighted			Requirement
ADVANO	CED AC	COUNTIN	G			Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Lev	/el	11-12	Prerequisite(s)	Accounting	g				
(OUITED I)	accrintin	n. Studente	s will continue to a	tain in-denth	h knowledge of i	more advanced ac	counting proc	طررية	eculos at besuses
business p	oroblems		financial decisions	•	_	more advanced ac ation is in learning	• .		
business p	oroblems	s and make	financial decisions	•	_		• .		
business p QuickBool	oroblems	s and make	financial decisions	•	_		• .		
business p QuickBool AHS	ks Pro co	s and make	financial decisions	•	_		• .		

						High School Cre	edits	1	Graduation	
				MCPS		Weighted			Requirement	
OFFICE ADMINISTRATION		Code	66210	Credit Type	СТЕ		CTE Credential Test(s) May Be Required			
Grade Level		10-12	Prerequisite(s)	•						
administrativ	ve sup	port profes		study office p	orocedures suc	n skills as they dev h as information p	, ,		,	
AHS			M	nt currently	offered due	to multiple facto	rs including			
BHS						of certified staff,			ecources	
CHS					-					
EMHS			Students	interested in this course should see their school counselor.						

DE COMPUTER INFORMATION SYSTEMS			Servemor's STEMA	MCPS		High School Credits Weighted		1	Graduation Requirement
		E D Sandardie	Course Code	DE6612	Credit Type	СТЕ	I	CTE Credential	
Dual Enrolled	✓	NE Com	NEW RIVER Community College		ITE 152	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 Introduction to Digital and Information Literacy and Computer Applications. To meet NRCC requirements, students in this course will develop understanding of digital and information literacy. This course introduces basic computer concepts in hardware, software, cyber, cloud, database, and operating systems. Includes hands-on experience developing word processing, spreadsheet and presentation documents. Evaluates the reliability of sources. Covers creating a simple web page. Examines topics such as social, legal, and ethical issues.

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

DE COMPLINFORMAT SYSTEMS (VIRTUAL)		DE6612V	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	BHS •		
CHS	CHS •		
EMHS			

ADVANCED COM			Support STEAM	MCPS	66130	High School Cre Weighted	edits	1	Graduation Requirement
				Course Code		Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Lev	Level 10-12 Prerequisite(s) Computer Information Systems								
	-		apply problem-sol, electronic, and \	_		itions through adva	nced integrat	ted so	oftware
AHS	•								
BHS									
CHS									
EMHS									

DE DESIGN,	DE DESIGN, MULTIMEDIA & WEB TECHNOLOGIES			MCPS	DE6630	High School Credits Weighted			Graduation Requirement
& WEB TECHNOLOGIES		ZE O Sandar Manufactified	Course Code	DE6630	Credit Type	СТЕ		CTE Credential	
Dual Enrolled	✓	NE Com Co	EW RIVER	NRCC Course Code(s)	ITD 110	College Credit	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 pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

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

ADVANCED DESIGN, MULTIMEDIA & WEB TECHNOLOGIES			or or of the state			High School Credits Weighted			Graduation Requirement
			Express Manufacture	Course Code	66310	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Lev	el	11-12	Prerequisite(s)	Design, N	Iultimedia, and W	eb Technologies	5		
electronic	publicat	ions. Stude	nts will work with	Adobe InD	desktop publishing Jesign, Photoshop mweaver, Photosh	and Illustrator.	Software to cre	ate	
AHS	•								
BHS									
CHS	•								
EMHS			•		•				

INTROD	INTRODUCTION TO		Section or's STEM	MCPS		High School C Weighted	redits	1	Graduation Requirement
INTERA PROGR	CTIVE		E O S	Course Code	66400	Credit Type	СТЕ	<u> </u>	CTE Credential Test(s) May Be Required
Grade Le	vel	11-12	Prerequisite(s)						
programr througho including	ming pro ut the co game pr	cedures wi ourse. Grap ograms. In	ts in the Programm th one or more sta hical user interface addition, students a variety of activitie	ndard langu es may be u employ HT	uages, and maste ised as students o	r programming f design and develo	undamentals. (op interactive r	Codir nulti	ng is used media applicatio
AHS	•								
BHS									
CHS EMHS	•								
ADVAN	CFD		(\$2.00 m) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			High School C Weighted	redits	1	Graduation Requirement
ADVAN PROGR		IG	Summar's STEN	MCPS Course Code	66410	Weighted			
			Pancey Manufacture	Couc		crean type	CTE		Required
Grade Le	vel	11-12	Prerequisite(s)	Introducti	ion to Interactive	Programming			
explore a method is	nd creat s availab	e applicatio le for this c	historical stude	nformation mbine class t the school ot current nt interes	technology and g room instruction I year. Iy offered due t	ame design indu and supervised o o multiple facto f certified staff,	stries. The coo on-the-job train ors, including and/or curre	perat	tive education in an approved esources.
		_				High School C	redits	1	Graduation
INFORM			Schemor & STEAT	MCPS		Weighted			Requirement
TECHNO FUNDA			THE CO Manufacture	Course Code	66700	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Le	vel	9-10	Prerequisite(s)						
	•		ation Technology (I	•			hnical and pro	fessio	onal skills require
	nts to pu	rsue progra	ams leading to pro	fessional ca	areers and IT certi	ifications.			
AHS									

BHS CHS

EMHS

•

DE CYBERSECURITY I		Stremor's STEM	MCPS		High School Credits Weighted			Graduation Requirement	
		ALLY I	E D S Manufactural	Course Code	DE6302	Credit Type	СТЕ		CTE Credential
Dual Enrolled	✓	□ N Col	NEW RIVER		ITN 106			Test(s) May Be Required	
Grade Level	•	9-12	Prerequisite(s)	See Below	/ *	•		•	

Course Description: Cybersecurity affects every individual, organization, and nation. This course focuses on the evolving and 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 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

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

DE CYBERSECURITY II		NTV II	Contemor's STEM	MCPS	DEC204	High School Credits Weighted			Graduation Requirement	
		R. O. S. Manufactured Manufactured	Course Code	DE6304	Credit Type	СТЕ		CTE Credential		
Dual Enrolled	✓	Solution Column 1 Column 2 Column 2 Column 3 Column 4 Column 3 Column 4 Column 3 Column 4 Column 4	NEW RIVER Community College		ITN 101	College Credit	College Credits 3		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 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

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

DE CYDERSECURITY III				MCPS	DE6306	High School Credits Weighted			Graduation Requirement	
DE CYBERSECURITY III				Course Code	DE0300	Credit Type	СТЕ		CTE Credential	
Dual Enrolled	√	■ N Cor	EW RIVER	NRCC Course Code(s)	ITN 261	College Credits			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 <u>pages 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

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

DE COMPUTER SCIENCE				MCPS Course Code	DE6640V	High School Credits Weighted			Graduation Requirement	
PROGRAMMING 1 (VIRTUAL)			Credit Type			CTE		CTE Credential Test(s) May Be		
Dual Enrolled	✓	NE Com Co	■ NEW RIVER Community College		CSC 221	College Credits 3		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			MCPS Course Code	DE6641V	High School Credits Weighted			Graduation Requirement	
PROGRAMMING 2 (VIRTUAL)		Credit Type			CTE		CTE Credential		
Dual Enrolled	~	NE Con	EW RIVER	NRCC Course Code(s)	CSC 222	College Credits		4	Test(s) May Be Required
Grade Level 9-12 Prerequisite(s)				DE6640V DE Computer Science Programming 1 (Virtual)					
Course Descr	iptio	n: This cou	rse is based on the	NRCC syllal	bus for CSC 222 (Object-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			Cournor's STEM PRESE	MCPS	DE6642V	High School Credits Weighted			Graduation Requirement
PROGRAMMING 3 (VIRTUAL)		E O S O S O S O S O S O S O S O S O S O	Course Code	Credit Type		CTE		CTE Credential Test(s) May Be	
Dual Enrolled	✓	NE Com Co	NEW RIVER Community College		CSC 223	College Credits		4	Required
Grade Level 9-12 Prerequisite(s)				DE6641V DE Computer Science Programming 2 (Virtual)					

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 Table of Contents

						High School (Credits	1	Graduation	
PRINCIPLES OF BUSINESS				MCPS Course 61150 Code		Weighted			Requirement	
& MARKETING		Credit Type	СТЕ		СТЕ					
Grade Leve	2/	9-10	Prerequisite(s)	None						
Course Des	cription	n: Students	discover the roles	of busines	s and marketing	in the free enter	prise system and	d the	global economy.	
_	Basic financial concepts of banking, insurance,				credit, inheritance, taxation, and investments are investigated to provide a strong					
background	d as stu	dents prepo	are to make sound	l decisions d	as consumers, w	age earners, and	citizens.			
AHS			N	ot current	ly offered due	to multiple fact	ors, including			
BHS	•	historical student interest, availability of certified staff, and/or current resources							esources.	
CHS			Students	ts interested in this course should see their school counselor.						
EMHS	•									

					High School Credits			Graduation	
			MCPS		Weighted			Requirement	
MARKETING EX	MARKETING EXPLORATIONS		Course Code	81100	Credit Type	dit Type CTE		CTE Credential Test(s) May Be Required	
Grade Level	9-10	Prerequisite(s)							

Course Description: In this course students will explore the world of marketing to understand its importance in today's society. Students will develop skills related to interpersonal communication, self-presentation, economics, marketing, sales, employability, career discovery, promotion, and ethical decision-making—all essential skills in any career. Contextual instruction and student participation in co-curricular career and technical student organization (CTSO) activities will develop leadership, interpersonal, and career skills. High-quality work-based learning (HQWBL) will provide experiential learning opportunities related to students' career goals and/or interests, integrated with instruction, and performed in partnership with local businesses and organizations.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

					High School Cr	edits	1	Graduation
		MCPS		Weighted			Requirement	
MARKETING	MARKETING		Course Code	81200	Credit Type	СТЕ		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 Credits Weighted			Graduation Requirement
MARKETING		Code		Credit Type	CTE		CTF C	
Dual Enrolled	V		EW RIVER	NRCC Course Code(s)	MKT 282			CTE Credential 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 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 9-11 and 194-196) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

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

DE ADVANCED MARKETING Course Code Credit Type CTE CTE Credential Test(s) May Be Required Community College Code(s) Course Code(s) Course Code(s)					MCPS		High School Cred	High School Credits		Graduation
Dual Enrolled Service MKT 100 College Credits CTE Credential Test(s) May Be Required	DE ADVANCED MARKETING					Weighted		√	Requirement	
Dual Enrolled September 2 NEW RIVER NRCC Course MKT 100 College Credits 3 Test(s) May Be Required			Code	Credit Type		CTE				
		√	NE Com	RIVER munity College	Course	MKT 100	College Credits 3		Test(s) May Be	

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 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses.

This course may carry with it a fee to NRCC.

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 CHS	•	The DE81	The DE8130 course will be offered at BHS based on the availability of qualified staff.						
CHS	•	Only the	Only the 81300 course is offered at CHS (NOT DE)						
EMHS	•	Only the	Only the 81300 course is offered at EMHS (NOT DE)						

					High School Credits			Graduation
			MCPS		Weighted		✓	Requirement
MARKETING N	MARKETING MANAGEMENT		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 Credits Weighted		1	Graduation Requirement			
ADVERT	ISING	DESIGN I		Course 85700 Code	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required				
Grade Lev	/el	10-11	Prerequisite(s)	•								
explores t	he elem	nents and pr		in a project-l	•	raphic design and ment. The studen	_					
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	This course requires students to attend BHS for at least a part of the school day (transportation provided).									
EMHS	•	This cours	This course requires students to attend BHS for at least a part of the school day (transportation provided).									

				MCPS		High School C Weighted	redits	2	Graduation Requirement		
ADVERT	ADVERTISING DESIGN II				Course 85710 Code		СТЕ		CTE Credential Tests(s) May Be Required		
Grade Lev	el	11-12	Prerequisite(s)	Advertisin	g Design I						
Course De	scriptio	n: Continua	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	se requires studen	ts to attend	BHS for at leas	t a part of the sch	ool day (transp	orta	tion provided).		
EMHS	the control of the co										

						High School C	redits	1	Graduation		
				MCPS		Weighted			Requirement		
GRAPHIC	S IMA	GING TEC	CHNOLOGY I	Course Code	86600	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required		
Grade Leve	Grade Level 9-11 Prerequisite(s)										
overview of Students le	of digital earn to p	file prepar practice wo	Imaging Technolo ation, image captu rkplace safety and application proces	ure, color th I develop sk	eory, digital file ills in measurem	output, press op ent, mathematic	erations, and bical problem solv	inde	•		
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	BHS for at least	a part of the sch	ool day (transp	orta	tion provided).		

				MCPS		High School Credits Weighted		2	Graduation Requirement
GRAPHIC IMAGING TECHNOLOGY II				Course 86610 Code	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required	
Grade Lev	el	10-12	Prerequisite(s)	Graphics Ir	naging Techno	logy I			
						a career in the grap VDOE Maximum Se			
AHS	•	This cour	se requires studen	its to attend	BHS for at leas	t a part of the school	ol day (transp	orta	tion provided).
BHS	•								
CHS									
EMHS	•	This cour	se requires studen	its to attend	BHS for at leas	t a part of the scho	ol day (transp	orta	tion provided).

				MCPS Course 84590 Code		High School C Weighted	redits	1	Graduation Requirement
GRAPH	ICS IMA	GING VIS	SUALIZATION		Credit Type	СТЕ		CTE Credential Tests(s) May Be Required	
Grade Le	vel	9-12	Prerequisite(s)	None					
solve pro	blems in 1. Studen	volving 3-D ts create a	s gain experiences object manipulati variety of animation ion of a portfolio s	on, storyboa ons that refle	rding, texturin ect real-world a	g/mapping, lightir applications and a	ng concepts, an	d env	vironmental
AHS									
BHS									
BHS CHS	•								

Graduation Requirement

FASHION MARI	KETING		Course Code	81400	Credit Type	СТЕ		CTE Credential Test(s) May Be Required	
Grade Level	10-12	Prerequisite(s)							
Course Description necessary for succemployment in fast unique to fashion	essful empl shion marke	loyment in appare eting, general mar	l businesses keting skills	s. Students developed applicable to the	lop general marle apparel and ac	keting skills nece cessories indust	essar ry, a	y for successful nd specialized skill	s
AHS									
BHS •									
CHS •									
EMHS									
					_				
			MCPS		High School C	redits	1	Graduation	
DE ADVANCED	FASHION	MARKETING	Course	DE8145	Weighted		V	Requirement	
			Code		Credit Type	CTE		CTT C	
Dual Enrolled	NE Com Co	EW RIVER	NRCC Course Code(s)	MKT 120	College Credi	ts	3	CTE Credential Test(s) May Be Required	
Grade Level	11-12	Prerequisite(s)	See Below	/ *					
Course Description requirements, stude accessories industrials unique to fast * In order to enrol (see pages 9-11 and This course may converted to the course may be converted to the course ma	dents with a ry and skills hion marke I I in a DE co nd 194-196 arry with it a	a career interest in important for supting and advanced urse, students multiple in addition to supting a fee to NRCC.	apparel an pervisory-mod d general m ust meet all ccessful cor	d accessories ma anagement emplo arketing skills ap admission and co appletion of prere	rketing gain in-copyment in appar plied to the appo ourse placemen quisite courses.	depth knowledge rel businesses. To arel and accesso t requirements	e of t hey d ories	the apparel and develop advanced industry.	
ADVANCED	. 0, 02 100	= 101 10 10 10 1							
FASHION	81450	This course may	be taken by	students who ar	e not eligible to	take a dual enro	olled	course	
MARKETING					3 - 3				
ALIC									

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

CHS

EMHS

MCPS

High School Credits

Weighted

						High School C	credits	1	Graduation
CDODTC 9	ENTERTAINMENT MCPS Weighted Requirement								Requirement
MARKETI		KIAINIVI	EINI	Course Code	81750	Credit Type	CTE	•	CTE Credential Test(s) May Be
Grade Leve		10-12	Prerequisite(s)						Required
			oductory course h	elns student	ts develop a the	rough understan	ding of fundam	onta	l marketing
concepts ar component	nd theoi s of bra	ries as they nding, spo	relate to the sport nsorships and end on of 81750 and D	rts, entertair Iorsements,	nment, and recr as well as prom	reation industries notion plans need	s. Students will ed for sports, e	inve nter	stigate the cainment and
AHS									
BHS	•								
CHS	•								
EMHS									
				<u> </u>		11: 1 6 1 14			
DE ADVA			&	MCPS		High School C	realts	1	Graduation Requirement
ENTERTA				Course Code	DE8177	Weighted		V	Requirement
MANAGE	MENT	<u> </u>				Credit Type	CTE		CTE Credential
Dual Enrolled	√	Some Diagram of the control	EW RIVER mmunity College	NRCC Course Code(s)	MKT 209	College Credi	ts	3	Test(s) May Be Required
Grade Leve	1	11-12	Prerequisite(s)	See Below	*			l .	
(see pages This course	9-11 an may ca npletio n	d <u>194-196</u>, rry with it (urse, students mu) in addition to su a fee to NRCC. and DE8177 is req	ccessful com	npletion of prer	equisite courses.		esta	blished by NRCC
ENTERTAIN MANAGEM	MENT	81770	This course may	be taken by	students who a	re not eligible to	take a dual enr	olled	course
AHS BHS CHS EMHS			historical stude	ent interest	, availability o	to multiple fact of certified staff e should see the	f, and/or curre	ent r	
						High School C	redits	1	Graduation
				MCPS		Weighted			Requirement
OPPORTU	JNITIE:	S IN GLO	BAL TRADE	Course Code	81350	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Leve		10-12	Prerequisite(s)						
internation	al trade	. Students	larketing and Com gain an understar ts, principles, and	nding of the	various careers	in global trade, f	inance, shipping		
AHS		- 2. 301100р							
BHS			No	ot currently	offered due t	to multiple tact	ors including		

EMHS Students interested in this course should see their school counselor.
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ADVANCED			MCPS	81360	High School Credits Weighted		1	Graduation Requirement
OPPORTUNITIE	S IN GLO	BAL TRADE	Course Code		Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Level	12	Prerequisite(s)	Opportur	nities in Global T	rade			
Course Description international trade concepts are review	e, builds up	on concepts learne	ed in Global	Marketing and	Commerce (8135).	Economic an		
AHS BHS CHS EMHS		historical stude	nt interest	, availability o	to multiple facto f certified staff, e should see thei	and/or curre	ent r	

Family & Consumer Science

	TRODUCTION TO CULINARY ARTS				High School C	redits	1	Graduation
			MCPS		Weighted			Requirement
INTRODUCTION	INTRODUCTION TO CULINARY ARTS			Course 82500 Code Cı	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Level	rade Level 9-10 Prerequisite(s)							
		6 !:						

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).

				MCPS		High School Credits Weighted		2	Graduation Requirement										
CULINAR	Y ART	SI		Code	82750	Credit Type	СТЕ		CTE Credential Test(s) May Be Required										
Grade Lev	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 scho	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 scho	ool day (transp	orta	This course requires students to attend CHS for at least a part of the school day (transportation provided).										

						High School C Weighted	redits	2	Graduation Requirement
CULINARY ARTS II			Course Code	82760	Credit Type	CTE		CTE Credential Test(s) May Be Required	
Grade Lev	el	11-12	Prerequisite(s)	Culinary Ar	ts I				
other skills	learned	d in Culinary	y Arts I. Students	prepare for o	occupations su	efine skills in servi ch as chef/cook, b reneur. VDOE Ma	oaker/pastry he	elper,	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	•								

					High School Credits		1	Graduation
		MCPS		Weighted			Requirement	
CULINARY ARTS SPECIALIZATION		Course Code	82790	Credit Type	СТЕ		CTE Credential Test(s) May Be Required	
Grade Level	12	Prerequisite(s)	Culinary A	rts II				

Course Description: The Culinary Arts Specialization curriculum provides students with continuing opportunities to obtain comprehensive knowledge of the food service industry as well as to expand their technical skills in a food service specialty. Students explore careers and refine their skills in implementing safety and sanitation standards, applying nutritional principles, planning menus, using business and math skills, and selecting and maintaining food service equipment. Depending on the options available in the locality, students specialize in one of the following four areas: Baking and Pastry Food-Preparation Techniques; Catering/Banquet Food-Preparation Techniques; Restaurant Operation Techniques; Quantity Food-Preparation Techniques. The curriculum continues to place a strong emphasis on science and mathematics knowledge and skills as it emphasizes critical thinking, practical problem solving, and entrepreneurial opportunities within the field of culinary arts.

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).

			MCPS		High School Cre Weighted	edits	1	Graduation Requirement
INDEPENDENT LIVING			82190	Credit Type	СТЕ	<u>I</u>	CTE Credential Test(s) May Be Required	
Grade Level	9-12	Prerequisite(s)						
informed consum	er choices; (creating and maint	taining a livir	ng environment	ging resources to a that support the w ısing; and managir	ell-being of in	ndivi	
AHS		Ne	ot currently	offered due to	o multiple factor	s, including	•	_
BHS		historical stude	nt interest,	availability of	f certified staff, a	and/or curre	ent re	esources.
CHS					should see their			
EMHS								

			MCPS		High School Cre	dits	1	Graduation Requirement
FAMILY RELATIONS		Course Code	82250	Weighted Credit Type	СТЕ	CTE Credentia Test(s) May Ba		
Grade Level	9-12	Prerequisite(s)						
family througho patterns that en	ut the lifespa hance family	n, analyzing factor	rs that build o ling effective	and maintain h ly with family s	ce of the family, nur lealthy family relation stressors and conflice coss the lifespan.	onships, deve	lopin	g communication
AHS		N	ot currently	offered due	to multiple factor	s, including		
BHS		historical stude	nt interest,	availability o	of certified staff, a	and/or curre	ent re	esources.
					e should see their			
CHS		Students	milerestea	in this course	e snouia see their	SCHOOL COUL	13610	11 .

1				MCPS		High School Cr Weighted	redits	1	Graduation Requirement	
NUTRITIC	ON & V	VELLNESS		Course Code	82290	Credit Type	СТЕ		CTE Credential Test(s) May Be Required	
Grade Leve	2/	9-12	Prerequisite(s)							
analyzing r and storing	elations g food fo	ships betwe or self and f	enrolled in Nutrition een psychological a family; preparing a strategies to promo	and social ne and serving i	eeds and food ch nutritious meals	noices; choosing fo and snacks; selec	foods that prom cting and using	ote ı	wellness; obtainin	
AHS BHS CHS EMHS			historical stude	nt interest	, availability o	o multiple facto f certified staff, should see the	, and/or curre			
			-			High School C	redits	1	Graduation	
'NTDOD!	·CTION			MCPS		Weighted	Icuito		Requirement	
INTRODUCTION TO EARLY CHILDHOOD EDUCATION			Course Code	82340	Credit Type	СТЕ		CTE Credential Test(s) May Be Required		
Cl - 1		0.40								
Grade Leve		9-12	Prerequisite(s)							
Course Des	scription ent of se	n: The child	Prerequisite(s) d care and educations and building selfer development; are	esteem; lea	arning experience	es for children; pı	_		-	
Course Des	scription ent of se	n: The child elf-concepts ents; caree	d care and educations and building self-	esteem; leand careers r	arning experience elated to child ca	es for children; pı are.	rinciples of guid	ling	children; healthy	
developme and safe er AHS BHS	scription ent of se	n: The child elf-concepts ents; caree	d care and educations and building self- er development; ar	esteem; leand careers r	arning experience elated to child ca	es for children; pı are.	rinciples of guid	ling	children; healthy	
Course Des developme and safe er AHS BHS CHS	ent of senvironm	n: The child elf-concepts ents; caree This cours	d care and educations and building self- er development; are serequires student	esteem; leand careers rets to attend	arning experience elated to child ca I BHS for at least	es for children; prare. a part of the sch	rinciples of guid	ortat	children; healthy	
developme and safe er AHS BHS	ent of senvironm	n: The child elf-concepts ents; caree This cours	d care and educations and building self- er development; ar	esteem; leand careers rets to attend	arning experience elated to child ca I BHS for at least	es for children; prare. a part of the sch	rinciples of guid	ortat	children; healthy	
Course Des developme and safe er AHS BHS CHS	ent of senvironm	n: The child elf-concepts ents; caree This cours	d care and educations and building self- er development; are serequires student	esteem; leand careers rets to attend	arning experience elated to child ca I BHS for at least	es for children; prare. a part of the sch	rinciples of guid	ortat	children; healthy	
Course Des developme and safe er AHS BHS CHS	ent of senvironm	n: The child elf-concepts ents; caree This cours	d care and educations and building self- er development; are serequires student	esteem; leand careers rets to attend	arning experience elated to child ca I BHS for at least	es for children; prare. a part of the sch	rinciples of guid nool day (transp nool day (transp	ortat	children; healthy	
Course Des developme and safe er AHS BHS CHS EMHS	scription ent of se nvironm • •	n: The child elf-concepts ents; caree This cours This cours	d care and educations and building self- er development; are serequires student	esteem; leand careers rets to attend	arning experience elated to child ca I BHS for at least I BHS for at least	es for children; prare. a part of the sch	rinciples of guid nool day (transp nool day (transp	ortat	children; healthy cion provided). cion provided).	
Course Des developme and safe er AHS BHS CHS	ent of senvironm o o o HILDHO	n: The child elf-concepts ents; caree This cours This cours	d care and educations and building self- er development; are se requires students st	esteem; lead of careers rests to attend ts to attend ts to attend MCPS Course Code	erning experience elated to child ca I BHS for at least I BHS for at least 82850	es for children; prare. a part of the sch a part of the sch High School Co Weighted Credit Type	rinciples of guid	ortat	children; healthy cion provided).	
Course Des developme and safe er AHS BHS CHS EMHS	ent of senvironm o o HILDHO	n: The child elf-concepts ents; caree This cours This cours	d care and educations and building self- er development; are serequires student	esteem; lead of careers rests to attend ts to attend ts to attend MCPS Course Code	erning experience elated to child ca I BHS for at least I BHS for at least 82850	es for children; prare. a part of the sch a part of the sch High School Co Weighted Credit Type	rinciples of guid	ortat	children; healthy cion provided). cion provided). Graduation Requirement CTE Credential Tests(s) May Be	

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

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

AHS

BHS

CHS EMHS •

•

Graduation

DE EARLY CHILDHOOD		MCPS Course	DE8286	High School Credits Weighted		2	Graduation Requirement		
EDUCATION	EDUCATION II		Code		Credit Type	CTE		CTE Credential	
Dual Enrolled	✓	NE Com Co	EW RIVER	NRCC Course Code(s)	CHD 118 & CHD 120	College Credi	ts	6	Tests(s) May Be Required
Grade Level 11-12 Prerequisite(s)			Early Child	hood Education I	*				

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

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

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

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

High School Credits

			MCPS		Weighted		Requirement	
INTRODUCT	NTRODUCTION TO INTERIOR DESIGN		Course 82550 Code		Credit Type CTE		CTE Credential Test(s) May Be Required	
Grade Level	9-12	Prerequisite(s)						
-					s on identifying and ysical and psycholo		ous careers in all ared of interior	15
AHS		Λ/	ot current	ly offered due t	o multiple factors	s includina		
BHS					f certified staff, a		t resources	
CHS								
EMHS		Student	s interested in this course should see their school counselor.					

					High School C	redits	2	Graduation
			MCDC		Weighted			Requirement
INTERIOR DESIGN I		MCPS Course Code	82950	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required Required	
Grade Level	10-12	Prerequisite(s)						

Course Description: Students prepare for employment in the entire spectrum of interior design by acquiring skills that include selection, purchase, design, and decoration of home furnishings and equipment; floral design; accessory construction; and textiles selection, as they prepare for continuing education leading to a career in interior design, space planning, or interior architecture.

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.

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	NTPODUCTION TO		MCDC		High School Credits		1	Graduation	
INTRODUCTION TO FASHION CAREERS		MCPS Course Code	82480	Weighted Credit Type	СТЕ		Requirement CTE Credential Test(s) May Be Required		
Grade Level	9-12	Prerequisite(s)							
Course Descriptio careers within the							kplor	ring the individual	/
AHS		DI.	ot currontl	u offered due to	multiple fact	ore including			
BHS				y offered due to			nt r	ocourcoc	
CHS	historical stude Students								
EMHS			s interested in this course should see their school counselor.						

INTPODUCTION TO HOSPITALITY		MCPS	82590	High School Credits Weighted			Graduation Requirement	
INTRODUCTION TO HOSPITALITY, TOURISM & RECREATION				Course Code	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Level	9-12	Prerequisite(s)						
Course Description and using emerging								ng professional skills unities.
AHS BHS CHS EMHS		historical stude	nt interest,	availability o	to multiple factory of certified staff, e should see the	and/or curre	ent re	

Health & Medical Sciences

INTRODUCTION TO HEALTH		MCPS		High School C Weighted	redits	1	Graduation Requirement		
	& MEDICAL SCIENCES		Course 83020 Code	83020	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required	
Grade Leve	el	9-12	Prerequisite(s)	•					
	-		lthcare field is one t to the many and			_	at job potentia	l for	students. This
AHS	•								
BHS	•								
CHS	•							,	
EMHS	•							,	

				MCPS		High School Cr	edits	2	Graduation
DE NURSE AIDE		Course	DE8331	Weighted		✓	Requirement		
				Code		Credit Type	dit Type CTE		CTE Credential
Dual Enrolled	✓	NE Con	NEW RIVER		NUR 27	College Credit	s	5	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 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

NURSE AID	NURSE AIDE 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	BHS Both the 83310 course and the DE8331 course are offered at BHS		83310 course and the DE8331 course are offered at BHS				
CHS	•	Both the	83310 course and the DE8331 course are offered at CHS				
• This course requires students to attend CHS for at least a part of the school day (transportation provided).							

					High School C	redits	1	Graduation
	IENTAL HEALTH ASSISTING CAREERS		MCPS		Weighted			Requirement
MENTAL HEAL			Course Code	83320	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	12	Prerequisite(s)						
and Bipolar Disor	der are just	ion, Anxiety, Suicia a few of the mento ay life, such as cor	al health issu	es that will be	discussed in this c	ourse. Student	s wil	
AHS		0.1	ot currently					

Students interested in this course should see their school counselor.

Table of Contents

DE EMERGE	NC	Y MEDICA	\L	MCPS Course	DE8333	High School C Weighted	redits	2	Graduation Requirement		
TECHNICIAN	/ /			Code	DE0353	Credit Type	СТЕ				
Dual Enrolled	V	E NEW RIVER Community College		NRCC Course Code(s)	EMS 112, EMS 113 & EMS 120	College Credit	ts		CTE Credential Tests(s) May Be Required		
Grade Level		11-12 Prerequisite(s) Introduction to Health and Medical Sciences (Recomme				s (Recommend	ed)				
include first aid Supervised wo	Course Description: This course is based on the NRCC syllabi for EMS 112, EMS 113 & EMS 120. To meet NRCC requirements, students focus on the role and responsibilities of emergency rescue workers, basic medical terminology, and health care skills that include first aid, cardiopulmonary resuscitation, ascetic technique, and related anatomy, physiology, and disease knowledge. Supervised work education is provided in a hospital or with rescue squads and is managed by the teacher. This course may carry with it a fee to NRCC.										
EMERGENCY MEDICAL TECHNICIAN I		83330									
AHS BHS CHS	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	83360	High School Credits Weighted		1	Graduation Requirement	
EMERGENCY M	IEDICAL R	RESPONDER	Course Code		Credit Type	СТЕ		CTE Credential Tests(s) May Be Required	
Grade Level	ade Level 11-12 Prerequisite(s) Introduction to Health and Medical Sciences								
Course Description while awaiting add and responsibilitie the pre-hospital se	ditional em s of the EM	ergency medical s	ervices (EMS	5) resources. Are	eas of study inclu	de an introduct	ion to	EMS systems, roles	
AHS BHS CHS		historical stude	nt interest,	availability o	to multiple fact f certified staff e should see the	, and/or curre	ent re		

	DE MEDICAL TERMINOLOGY			MCPS		High School C	redits	1	Graduation	
DE MEDICA				Course	DE8383	Weighted		✓	Requirement	
				Code		Credit Type	CTE		CTE Credential	
Dual Enrolled	✓	NE Com Co	EW RIVER	NRCC Course Code(s)	HIM 101 & HIM 103	College Credit	ts	6	Tests(s) May Be Required	
Grade Level		11-12	Prerequisite(s)	Introducti	duction 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 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

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	•		

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

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	•	

					High School Credits			Graduation
		MCPS		Weighted			Requirement	
PHARMACY TE	PHARMACY TECHNICIAN II		Course Code	83060	Credit Type	СТЕ		CTE Credential Test(s) May Be Required
Grade Level	Grade Level 12 Prerequisite(s)		Pharmad	cy 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	•	

				83880	High School Credits			Graduation
MEDICAL CODING & BILLING I		MCPS	Weighted			Requirement		
		Course Code	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.

				83890	High School Credits			Graduation
			MCPS		Weighted			Requirement
MEDICAL CODING & BILLING II		Course Code	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,							
	Surmor's STEAM	MCDS		High School Credits Weighted		1	Graduation Requirement
DE CIVIL ENGINEERING & ARCHITECTURE		MCPS 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 Credits		3	PROJECT LEAD THE WAY
Grade Level 11-1	2 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	
EMIL	

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			Sesumor's STEAM	MCPS		High School C Weighted	Credits	1	Graduation Requirement
ENGINEERING DESIGN (Technology)		Z. O. Manufacult	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 Credits			PLTW 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	•	

DE PRINCIPLES OF ENGINEERING		Stronor's STEM	MCPS	DE8441	High School Credits Weighted			Graduation Requirement
		R. C. Manufactifier	Course Code		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 Credits			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 INTEGRATED MANUFACTURING		MCPS Course Code	DE8442	High School Credits Weighted			Graduation Requirement		
				Credit Type	CTE		CTE Credential Tests(s) May Be Required		
Dual Enrolled	✓		R·I·T	RIT Course Code(s)	PLTW 105-88	College Credits			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			MCPS	High School Credits Weighted		1	Graduation Requirement	
(Drafting I)		E O Supragaria	Course	DE8530	Credit Type	СТЕ		CTE Credential
Dual Enrolled	✓ I		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 ENGINE	ERIN	NG DESIG	N Scornor's STEM	MCPS		High School Credits Weighted			Graduation Requirement
GRAPHICS (Drafting II)		E. O. Manufactille	Course	DE8531	Credit Type	CTE		CTE Credential	
Dual Enrolled	✓	■ NE Com	EW RIVER	NRCC Course Code(s)	CAD 151	College Credi	ts	3	Tests(s) May Be Required
Grade Level 11-12 Prere		Prerequisite(s)	Introducti	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 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

AHS		
BHS	•	
CHS		
EMHS		

DE CIVIL ENGINEERING & ARCHITECTURAL				MCPS	550500	High School Credits Weighted		2	Graduation Requirement
DESIGN GRAPHICS (Drafting III)			Course Code	DE8532	Credit Type	CTE		CTE Credential	
Dual Enrolled	√	Ne Con Co	EW RIVER	NRCC Course Code(s)	CAD 111	College Credit	ts	3	Tests(s) May Be Required
Grade Level 11-12 Prerequisite(s)			Engineerir	ng Design Graphic	s (Drafting II) *				

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

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

AHS		
BHS	•	
CHS		
EMHS		

		gernor's STEA			High School C	redits	1	Graduation	
		TE VE	MCPS		Weighted			Requirement	
TECHNICAL DE & DESIGN	RAWING	TE MANUMENT OF THE PROPERTY OF	Course Code	84350	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required	9
Grade Level	9-12	Prerequisite(s)							
Course Descripti	on. Pacie Te	schnical drawing is	an introduc	tory drafting cou	irco that provide	s students the	anna	rtunity to dovolo	n

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				MCPS		High School Credits Weighted		1	Graduation Requirement
DRAWING & DESIGN		E O S Manufactural	Course Code	DE8436	Credit Type	СТЕ		CTE Credential	
Dual Enrolled	✓	■ NE Com	EW RIVER	NRCC Course Code(s)	CAD 111	College Credi	ts	3	Tests(s) May Be Required
Grade Level 10-12 Prerequisite(s)			Technical	Drawing and Desi	gn *				

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 pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

ENGINEER DRAWING DESIGN		84360	This course may be taken by students who are not eligible to take a dual enrolled course						
AHS	•	Only the 8	nly the 84360 course is offered at AHS (NOT DE)						
BHS									
CHS	•	Only the DE8436 course is offered at CHS. At CHS, this course is dual enrolled with CAD 151.							
EMHS	•	Only the 8	34360 course is offered at EMHS (NOT DE)						

DE ARCHITECTURAL				MCPS		High School Credits Weighted		1	Graduation Requirement
DRAWING & DESIGN		New Manufaction	Course Code	DE8437	Credit Type	СТЕ	ı	CTE Credential	
Dual Enrolled	✓	NE Com Co	EW RIVER	NRCC Course Code(s)	CAD 151	College Credi	ts	3	Tests(s) May Be Required
Grade Level 10-12 Prerequisite(s)			Technical	Drawing and Desi	gn *		•	•	

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 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

ARCHITECTURAL DRAWING & DESIGN		84370	This course may be taken by students who are not eligible to take a dual enrolled course						
AHS	•	Only the 84370 course is offered at AHS (NOT DE)							
BHS	•	Only the DE8437 course is offered at BHS							
CHS	•	Only the DE8437 course is offered at CHS. At CHS, this course is dual enrolled with ARC 121.							
EMHS									

DE ADVANCED DRAWING & DESIGN			overnor's STEM		DE8438	High School Credits			Graduation
				MCPS		Weighted		✓	Requirement
			E O Supposed Manufactural	Course Code		Credit Type	СТЕ		CTE Credential
Dual Enrolled	✓	■ NEW RIVER Community College		NRCC Course Code(s)	CAD 152	College Credits		3	Tests(s) May Be Required
Grade Level 11-12 Prerequisite(s)				Architectu	ral Drawing and	Design or Engine	eering Drawing	& De	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 pages 9-11 and 194-196) 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									

DE INTRODUCTION TO DRONES				MCPS Course	DE0010	High School Credits Weighted			Graduation Requirement	
DE INTROD	DE INTRODUCTION TO DRONES				DE8910	Credit Type	СТЕ		SOL Test(s) Required	
Dual Enrolled	√	■ NEW RIVER Community College		NRCC Course Code(s)	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 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC. 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 DRONE				MCPS	DE0726	High School Credits Weighted			Graduation Requirement
DE DRONES II			Course Code	DE8736	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 Prerequis		Prerequisite(s)	DE Introdu	uction 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 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC. VDOE Maximum Section Enrollment Applies.

DRONES II		87360	This course may be taken by students who are not eligible to take a dual enrolled course
AHS			
BHS	•		
CHS	•		
EMHS	·		

Trade & Industry

DE WELDIN	e i		Screenor's STEM To	MCPS	DE0040	High School C Weighted	redits	1	Graduation Requirement
DE WELDIN	ELDING I		Course Code	DE8019	Credit Type	СТЕ		CTE Credential	
Dual Enrolled	✓	NE Com Co	EW RIVER	NRCC Course Code(s)	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 <u>pages 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC..

VDOE Maximum Section Enrollment Applies.

WELDING I		80190	This course may be taken by students who are not eligible to take a dual enrolled course
AHS	•		
BHS	•		
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	dits	1	Graduation Requirement
AGRICULTURAL FABRICATIONS & EMERGING TECHNOLOGIES				Course 80191 Code	Credit Type	СТЕ		CTE Credential Test(s) May Be Required	
Grade Leve		10-12	Prerequisite(s)						-
metalworki within the f	ng prod ield of	cesses, for a		ations. This c	course will also	al fabrication, includ o include the investig rated throughout.			
AHS			No	ot currently	offered due	to multiple factors	s, including		
BHS			historical stude	nt interest,	availability o	of certified staff, a	nd/or curre	ent re	esources.
CHS						e should see their			
EMHS									

DE WEI DIN	~ II		Street of STEM	MCPS	55005	High School C Weighted	redits	1	Graduation Requirement
DE WELDIN	NG II		Course DE Code	DE8095	Credit Type	СТЕ		CTE Credential	
Dual Enrolled	✓	NE Con Co	EW RIVER	NRCC Course Code(s)	WEL 123	College Credi	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 pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC. VDOE Maximum Section Enrollment Applies.

WELDING	ı	80950	This course may be taken by students who are not eligible to take a dual enrolled course
AHS	•		
BHS	•		
CHS	•		
EMHS	•	This cours	se requires students to attend CHS for at least a part of the school day (transportation provided).

DE WELDIN	C III	1	Stremor's STEM	MCPS	D.F.0.0.C	High School C Weighted	redits	1	Graduation Requirement
DE WELDIN	G III	l	E O STATE OF THE S	Course Code	DE8096	Credit Type	CTE		CTE Credential
Dual Enrolled	✓	None Con Con	EW RIVER	NRCC Course Code(s)	WEL 160	College Credi	ts	4	Test(s) May Be Required
Grade Level		11-12	Prerequisite(s)	DE Weldin	g II *	•			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 pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC. VDOE Maximum Section Enrollment Applies.

WELDING	II	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 **MCPS** Requirement Weighted **MANUFACTURING** Course 84250 **CTE Credential** SYSTEMS I Code **Credit Type** CTE Tests(s) May Be Required 9-12 **Grade Level** 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	•	

High School Credits

						THE TOTAL	Cares		Graduation
	NUFACTURING		SCHOOL S STEP	MCPS		Weighted			Requirement
SYSTEM		aing	Express Manufaction	Course Code	84270	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Lev	/el	11-12	Prerequisite(s)	Manufact	uring Systems I				
complex i	nterdisc	iplinary pro	ing processes and blems that stem frollment Applies.	•	•	• , ,		in te	ams to solve
AHS									
BHS	•								
CHS									
EMHS							·		·

					High School C	redits	1	Graduation
MATERIALS & F	DOCECCE	Court of STEAM	MCPS		Weighted			Requirement
TECHNOLOGY	'KUCE33E	E O S	Course Code	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	•	

Graduation

CONSTRUCTION TECHNOLOGY		SCOremor's STEM	MCPS		High School Credits Weighted		1	Graduation Requirement	
		V	Z. O. S. Manufactified	Course 84310 Credit Type	СТЕ		CTE Credential Tests(s) May Be Required		
Grade Lev	vel	9-12	Prerequisite(s)			<u>. </u>			
	-		s design, build and ects, carpenters, e			•	• •		•
	-		construction caree		•		•	acsig	n engineers, as well
as explore	-		construction caree		•		•	uc316	n engineers, as well
	e a variet		construction caree		•		•	<i>a</i> c 3 g	n engineers, as well
as explore	e a variet		construction caree		•		•	uc316	n engineers, as well

					High School C	redits	2	Graduation
		Governor's STEAR	MCPS	1	Weighted			Requirement
BUILDING TRADES I		Course	85150	Credit Type	СТЕ		CTE Credential Tests(s) May Bo Required	
Grade Level	10-11	Prerequisite(s)						-
Course Description materials such as a core safety in the	netal, woo	d, stone, brick, gla	ss, concrete	e and composition	substances. St	udents focus or	n dev	eloping skills in
AHS				y offered due to				

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.

BUILDING TRADES II		Cou	MCPS	85160	High School Credits		2	Graduation
			Code		Weighted Credit Type	СТЕ		Requirement CTE Credential Tests(s) May Be Required
Grade Level 10-11 Prerequisite(s)								
Course Description	n: Building	Trades II continue:	s to prepare	students to ere	ect, install, maintain	, and repair l	buildi	ing, and other
-	autoviale err	-l	atama buill			la ahau a a a a C	4	ata fa ausa au
developing skills in	core safet	y in the masonry, c	carpentry, ele		e and composition s lumbing professions			-
developing skills in available. VDOE N	core safet	y in the masonry, c ection Enrollment	carpentry, ele Applies.	ectricity, and pl	umbing professions	. NOTE: Co-	-oper	-
	core safet	y in the masonry, c cection Enrollment No	carpentry, ele Applies. ot currently	ectricity, and pl		. NOTE: Co-	-oper	ative education is

		Sumor's STEP			High School Credits			Graduation
					Weighted			Requirement
CARPENTRY I		Now Manufactured Manufactured	Course Code	86010	Credit Type	СТЕ		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	•	

		sternor's STEM			High School C	redits	2	Graduation
			MCPS		Weighted			Requirement
CARPENTRY II		Z. O. Manufactiff	Course Code	86020	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	9-12	Prerequisite(s)	Carpentry I	1				

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	•	

		mor's STE			High School Credits			Graduation
			MCPS		Weighted			Requirement
CARPENTRY III		Z. O. S.	Course Code	86030	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	10-12	Prerequisite(s)	Carnentry	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.

•			•		•	•	
VDOE N	/laximum	Section	Enrol	lment .	App	lies	

AHS		
BHS	•	
CHS	•	
EMHS		

		ornor's STE			High School Credits			Graduation
			MCPS		Weighted			Requirement
CABINET MAKI	NG I	Z. O. Manufaculist	Course Code	86040	Credit Type	СТЕ		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	•	

CABINET MAKING II		Conemor's STEM	MCPS		High School Credits Weighted		2	Graduation Requirement
		TE O STATE OF THE	Course Code	86051	1 Credit Type CTE	CTE Credential Tests(s) May Be Required		
Grade Level	9-12	Prerequisite(s)	Cabinet M	1aking 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	•	

		100			High School C	redits	1	Graduation
TECHNOLOGY OF		SCOUGNOT'S STEMP A	MCPS		Weighted			Requirement
ROBOTIC DESIGN (ROBOTICS I)		Ow Letter Manufactured Manufact	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 ST				High School Credits			Graduation
ENGINEERING		Se Constitution of the Con	MCPS		Weighted			Requirement
EXPLORATIONS (ROBOTICS II)		S Namulatida	Course Code	84500	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	9-12	Prerequisite(s)	Technolo	gy of Robotics Des	sign I (Robotics)		

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

ENGINEERING STUDIES (ROBOTICS III)		and's STra	mor's \$710	High School Credits			Graduation	
		s Service Service	MCPS		Weighted			Requirement
		E Manufactified	Course Code	84910	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	ade Level 11-12 Prerequisite(s) Engineering Explorations (Robotics 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	Robotics III 98283		This course can be taught as a local elective.
AHS	•		
BHS	•		
CHS	•		
EMHS	•		

								Table of Conte	nts
		or's Cr			High School Cr	redits	1	Graduation	
		EST TO THE PARTY OF THE PARTY O	MCPS		Weighted			Requirement	
ROBOTICS EXP	ERIENCE I		Course 98281		J		-	CTE Credential	
		ZE DIES	Code		Credit Type	Elective	ļ	Tests(s) May B	е
		Manulac Manulac					ļ	Required	al Be all Be at ical all Be at ical
Grade Level		Prerequisite(s)							
Course Description	n: Students	engage in the stu	dy of comp	uters and micro	processors and the	eir applications	to m	nanufacturing,	
transportation, an									
control systems, a									m,
and interface devi							omp	uter-aided	
manufacturing and			romechanic	al devices. This	course is equivale	ent to 84210.			
VDOE Maximum S	ection Enro	ilment Applies.							
BHS		No	ot currentl	ly offered due t	to multiple facto	ors, including			
CHS	-	historical stude	nt interes	t, availability o	f certified staff,	and/or curre	nt re	esources.	
EMHS		Students	intereste	d in this course	should see thei	ir school cour	iselo	r.	
LIVIII									
					High School Cr	redits	1	Graduation	
	Section 1		MCPS		Weighted			Requirement	
ROBOTICS EXPERIENCE II		Course	98282				CTE Credential		
		To Supply	Code		Credit Type	Elective	ļ	Tests(s) May B	е
		Manutat						Required	
Grade Level		Prerequisite(s)	98281 or	84210					
Course Description									
solving real-world									
the principle engin									ical
and scientific conc									
Students communicontent of this CT						osais, ana tecn	mcai	reports. The	
VDOE Maximum S			iise is the s	unie us course o					
AHS	CCCIOII EIII O								
BHS					to multiple facto	_			
CHS	-				f certified staff,				
EMHS		Students	intereste	d in this course	should see thei	ir school cour	iselo	r.	
<u>'</u>	ı								
		nor's STr			High School Cr	redits	1	Graduation	
		EST TO THE REPORT OF THE PARTY	MCPS		Weighted			Requirement	
ROBOTICS EXP	ERIENCE II		Course	98283				CTE Credential	
		Total Line Line	Code		Credit Type	Elective	ļ	Tests(s) May B	е
		Manus						Required	
Grade Level		Prerequisite(s)	98282 or						
Course Description									
students by empho					,				
curriculum deman		*						, ,	10
through brainstor									
while applying the course is the same						ent of this CIE	/ 100	unnology Eaucat	ion
AHS	us course à								
BHS	-				to multiple facto				
CHS	historical student interest, availability of certified staff, and/or current resources.								

Students interested in this course should see their school counselor.

					High School Credits			Graduation
PRECISION MACHINING		Common's STEAM	MCPS		Weighted			Requirement
TECHNOLOGY I		R. O. Manufacult	Course Code	85390	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
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 Weighted	High School C Weighted	Credits 2 ✓		Graduation Requirement		
			Course DE8540 Code		Credit Type	СТЕ		CTE Credential	
Dual Enrolled	✓	NE Com Co	EW RIVER	NRCC Course Code(s)	MAC 106	College Credits			Tests(s) May Be Required
Grade Level		11-12	Prerequisite(s)	Precision N	/lachining I *	*			•

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

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

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

VDOE Maximum Section Enrollment Applies.
--

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

			MCPS		High School Credits Weighted		1	Graduation Requirement
POWER & TRAI	TION	Course 84450 Code	Credit Type	СТЕ	I	CTE Credential Tests(s) May Be Required		
Grade Level	9-11	Prerequisite(s)	•					-
controlled, and use opportunities in th	ed through e power an	mechanical, fluid,	and electrica	al devices. Stud	d to power and the will explore troe and design and buil	ansportation		nsmittea, ems, research career
V DOL IVIGXIII GIII S								

EMHS

				MCPS		High School C Weighted	Credits	2	Graduation Requirement			
AUTO TI	ECH I	A	NATEF	Course Code	85060	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required			
Grade Lev	⁄el	10	Prerequisite(s)			·	•					
junior yea in the aut school. St the what,	r and place omotive tudents and how, and	an to compl field or pro are expecte d why of au	lete the program a ovide them with th	ns seniors. The backgrour we backgrour wledge of au ons. As stud	The purpose of nd to continue Itomobile comp ents gain know	the program is to developing more conents and how steed are at	prepare studen diagnostic skills systems perforn ble to practice a	ts wi as a n in d nd d	order to understand emonstrate their			
	•	This cours	This course requires students to attend CHS for at least a part of the school day (transportation provided).									
AHS			se requires stades		This course requires students to attend CHS for at least a part of the school day (transportation provided).							
AHS BHS	•		•			•	nool day (transp	orta	• •			
	•		•			•	nool day (transp	orta	• •			

						High School C Weighted	redits	2	2 Graduation Requirement	
AUTO TE			NATEF	Course Code	85070	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required	
Grade Leve	el	11	Prerequisite(s)	Automotiv	ve Technology I					
Course Des	cription	n: This cou	rse is a continuation	on of 85060). VDOE Maximi	um 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	orta	tion provided).	
BHS	•	This cours	se requires studen	ts to attend	CHS for at least	a part of the sch	ool day (transp	orta	tion provided).	
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).	

				MCPS		High School C Weighted	redits	2	Graduation Requirement
AUTO TE	CH III	AS	NATEF	Course Code	85080	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Lev	el	12 Prerequisite(s) Automotive Technology II							
Course De	scriptio	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	orta	tion provided).
BHS	•	This cours	se requires studen	ts to attend	CHS for at least	a part of the sch	ool day (transp	orta	tion provided).
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 Credits			Graduation
BEAUTY SALON ASSISTANT			MCPS Course 85460 Code		Weighted			Requirement
				Credit Type	СТЕ		CTE Credential Tests(s) May Be Required	
Grade Level	10-11	Prerequisite(s)						
Course Description and prepare in a cl shampooing and co certificate for entre graduation. This co	inical lab se anditioning y-level emp	tting, learning pra , retailing, invento loyment. This cou	ectical and more	nanipulative skills and receptionist v	s. The program e work. Competer	emphasizes safe cy completions	ety ai allo	nd sanitation, w students a

AHS BHS CHS

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	2	Graduation
COSMETOLOGY I		Course 85270	Weighted				Requirement	
			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 C	redits	2	Graduation
			MCPS		Weighted			Requirement
COSMETOLOG	COSMETOLOGY II		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).

				85290	High School C	redits	2	Graduation
COSMETOLOGY III		MCPS	Weighted				Requirement	
		Course Code	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
				High School C	redits	2	Graduation
		MCPS		Weighted			Requirement
BARBERING I		Course Code	87400	Credit Type	СТЕ	•	CTE Credential Tests(s) May Be
	10.11						Required
	10-11 Prerequisite(s)		11: 6: 1				
mannequins and live is management skills. Risthe students to work the Board licensing enhours in Barbering or AHS BHS CHS		practice. The ude psychol urber shop c ust complete uximum Sec Not curre	e program emphogy, ethics, and or beauty salon. e all three levels tion Enrollment offered due est, availability	asizes safety and professional imag This course requi to receive a min	sanitation, conge. Competency ires 280 hours. imum number ors, including and/or curren	mmui y com To b of 84	nication, and appletions prepare to take of instructional
EMHS							
				High School C	redits	2	Graduation
		MCPS		Weighted			Requirement
BARBERING II		Course	87410				CTE Credential
		Code		Credit Type	CTE		Tests(s) May Be
							Required
Grade Level 1	11-12 Prerequisite(s)	Barbering	1				
examination, student		e levels to r ment Applio Not curre udent inter	eceive a minimues. ntly offered due est, availability		ors, including and/or current	hour t reso	s in Barbering or
				High School Cr	redits	2	Graduation
		MCPS		Weighted			Requirement
BARBERING III		Course Code	87420	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
	12 Prerequisite(s)	Barbering					
	In this advanced course, s proficiency in hair cutting						
safety, and infection of hair coloring technique focuses on managing combine classroom in throughout the school must complete all the VDOE Maximum Sect	control. Students are train les. They also develop art the shop. Competency co estruction and supervised of year. This course require ree levels to receive a min tion Enrollment Applies.	ned in safe consistic skills when maletion properties on the source of the second seco	themical process ith wigs and hai repares the stud training in an ap rs. To be eligibl	es related to cher r additions. An ad ent for the Virgini proved position o e to take the Boa	mical texture se lvanced busines la State Licensii r internship wi rd licensing ex	ervice ss ma ng Exi th coi camin	s and advanced nagement unit am. Students can ntinuing supervision ation, students
AHS BHS	historical stu			to multiple factor of certified staff, o		reso	urces.

Students interested in this course should see their school counselor.

EMHS

					High School C	redits	1	Graduation
CINEMA & PHOTO	OGDADI	410	MCPS		Weighted			Requirement
PRODUCTION I	OGRAPI	TIC	Course Code	86071	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	9-12	Prerequisite(s)			•		U .	
Course Description: today's global, multin a variety of technolog professional-grade im photography, includir AHS	media soo gy, includ nages. In	ciety. Students wil ling digital camero addition, student	ll be taught as, design so s will evalud entals of fill	industry-relevan oftware, and edit ate and critique p m and darkroom	t technical skills (ing tools to stag hotographic wol development.	and have the ope, shoot, procestrick and investige	oport ss, pr	unity to work with int, and present
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	redits	2	Graduation
			MCPS		Weighted	100103	_	Requirement
CINEMA & PHOTOGRAPHIC PRODUCTION II			Course Code	86080	Credit Type	СТЕ	1	CTE Credential Tests(s) May Be Required
editing tools to stage, In addition, students AHS BHS CHS EMHS		ly) explore the ful historical st	Not currer	of film and dark		nt. ors, including and/or current	reso	
					High School C	redits	1	Graduation
HEATING VENTU	ATION		MCPS		Weighted	i Cuito	_	Requirement
### HEATING, VENTILATION, & AIR CONDITIONING (HVACR) I		Course Code	85030	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required	
Course Description: and cool a house. In a This class is great for	addition, anyone v	students learn ho who wants to wor	ow to diagno k in a hands	ose and repair re	frigerators, air co nyone who just v	onditioners, hed wants to know l	at pu	mps and furnaces.

Graduation

Requirement

HEATING, VENTILATION,	MCPS		Weighted			Requirement	
,	Course	85040				CTE Credential	
& AIR CONDITIONING (HVACR) II	Code		Credit Type	CTE		Tests(s) May Be	3
			71			Required	
Grade Level 11-12 Prerequisite(s)	HVACR I						
Course Description: In this series of courses, you		how to design. I	build and install a	ll of the compo	nent	s necessary to he	at
and cool a house. In addition, students learn how							
This class is great for anyone who wants to work		,).
their own equipment.	CIII U IIUIIUS	s-on field of for (arryone wiro just v	varits to know i	10 00 1	to do repairs on	
							—
AHS	Not currer	ntly offered due	to multiple facto	rs, including			
BHS historical stu			of certified staff,		reso	ources.	
CHS Stude			e should see thei				
EMHS							
			High School C	redits	1	Graduation	
	MCPS		Weighted		_	Requirement	
ELECTRICITY I	Course	85330	vv cigireca			CTE Credential	
LLLCTRICITI	Code	03330	Credit Type	CTE		Tests(s) May Be	2
	Couc		Credit Type	CIL		Required	,
Crade Level 10.11 Programistate						Required	
Grade Level 10-11 Prerequisite(s)		1.1					
Course Description: Students will learn about el							
applications, with a special emphasis on the elec				- 1		*	
will learn how to safely use electrical test meters						ts and equipmen	t
control circuitry. May dual enroll with NRCC's E	LE 130, ELE	127 and SAF 1.	27 for 8 college c	redits (DE8533)).		
AHS	Not currer						
		itly offered due	to multiple facto	rs including			
historical stu			to multiple facto		reso	nurces	
CUS historical stu	dent intere	est, availability	of certified staff,	and/or current		ources.	
CUC historical stu	dent intere	est, availability		and/or current		ources.	
CHS historical stu	dent intere	est, availability	of certified staff,	and/or current		ources.	
CHS historical stu	dent intere	est, availability	of certified staff,	and/or current		ources.	
CHS historical stu	dent intere	est, availability	of certified staff, e should see thei	and/or current ir school counse	elor.		
CHS historical stu	dent intere	est, availability	of certified staff, te should see thei	and/or current ir school counse		Graduation	
CHS Studen	dent interes	est, availability (ted in this cours	of certified staff, e should see thei	and/or current ir school counse	elor.	Graduation Requirement	
CHS historical stu	MCPS Course	est, availability	of certified staff, se should see thei High School C Weighted	and/or current ir school counse	elor.	Graduation Requirement CTE Credential	
CHS Studen	dent interes	est, availability (ted in this cours	of certified staff, te should see thei	and/or current ir school counse	elor.	Graduation Requirement	2
CHS Studen	MCPS Course	est, availability (ted in this cours	of certified staff, se should see thei High School C Weighted	and/or current ir school counse redits	elor.	Graduation Requirement CTE Credential	
CHS Studen EMHS ELECTRICITY II	MCPS Course	est, availability ted in this cours	of certified staff, se should see thei High School C Weighted	and/or current ir school counse redits	elor.	Graduation Requirement CTE Credential Tests(s) May Be	2

applications, with a special emphasis on the electrical aspects of heating ventilation and air conditioning (HVAC) systems. Students will learn how to safely use electrical test meters to diagnose and repair problems in electrical distribution circuits and equipment

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.

control circuitry.

AHS

BHS

CHS

EMHS

MCPS

High School Credits

Weighted

Table of Contents

						High School Cre Weighted	High School Credits		Graduation Requirement	
ELECTRICITY III				MCPS Course 85350 Code		Credit Type	СТЕ		CTE Credential Tests(s) May Be Required	
Grade Level		12	Prerequisite(s)	Electricity II						
applications,	vith o	special e	mphasis on the ele	ctrical aspec	ts of heating v	ethods used in reside entilation and air co oblems in electrical	nditioning (H	IVAC)) systems. Students	
AHS BHS CHS EMHS				udent interes	st, availability	to multiple factors of certified staff, ar se should see their s	nd/or current		ources.	

OTHER COURSES

			MCPS		High School C Weighted	redits	1	Graduation Requirement	✓	
ECONOMICS & PERSONAL FINANCE		Course 6	6120V	Credit Type	Required Elective		CTE Credential Test(s) May Be Required			
Grade Lev	el	9-12	Prerequisite(s)	None						
decisions	related	l to career	ts learn how to reexploration, but ving independen	dgeting, ba	nking, credit, in	isurance, spen	ding, taxes, sav	ving,		
AHS	•									
BHS	•			•				, and the second		
CHS	•					·	·		·	
FMHS	•									

ADVANCED DHY	VSICAL EF	NICATION	MCPS	76400	High School Credits Weighted			Graduation Requirement	
ADVANCED PHYSICAL EDUCATION			Course Code	76400	Credit Type	Elective		SOL Test(s) Required	
Grade Level	9-12	Prerequisite(s)	Preference will be given to 11 th and 12 th graders.						

Course Description: Advanced physical education includes participation in physical activities that contribute to personal enjoyment and the attainment/maintenance of personal physical activity goals. Students will participate in various forms of exercise as well as physical strength and conditioning, including weight lifting, running, agility, core and abdominal training, and flexibility exercises. **This course is an elective course and does not satisfy either of the two HPE courses required for graduation. This course may be repeated for duplicate credits.**

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

				77100	High School Credits			Graduation	
LINIFIED PHYS	ICAL FOLI	CATION	MCPS		Weighted			Requirement	
	UNIFIED PHYSICAL EDUCATION		Course Code		Credit Type	Elective		SOL Test(s) Required	
Grade Level	9-12	Prerequisite(s)				•			

Course Description: This elective course combines students of all abilities to participate in developmentally appropriate activities including lifetime activities, physical fitness, and sport. Students will work together to increase competence and confidence in a variety of physical activities. Through ongoing leadership opportunities, members of this course will be empowered to help create a more inclusive and accepting school environment for all students.

Students cooperate and work together in groups/teams to:

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

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

AHS	•
BHS	•
CHS	•
EMHS	•

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

DE VIRGINIA TEACHERS				MCPS		High School C	redits	1	Graduation
FOR TOMORROW /				Course	DE9062	Weighted		✓	Requirement
TEACHER CA	CHER CADET Code Credit Type CTE				CTE Credential				
Dual Enrolled	√	■ NEW RIVER Community College		NRCC Course Code(s)	EDU198	College Credi	ts	3	Tests(s) May Be Required
Grade Level		11-12	Prerequisite(s)	See Below	*				

Course Description: This course introduces students to a career in teaching and education. Virginia Teachers for Tomorrow (VTfT) fosters student interest, understanding, and appreciation of the teaching profession and allows secondary students to explore careers in education. Students build a foundation for teaching; learn the history, structure and governance of teaching; apply professional teaching techniques in the VTfT classroom and field experience; and reflect on their teaching experiences. Additional educational leadership opportunities are offered through the student organization, Educators Rising. **Internships or Clinical Experiences will be provided.**

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

VIRGINIA TEACHERS FOR TOMORRO TEACHER (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).

DE VIRGINIA TEACHERS FOR TOMORROW II / TEACHER CADET II		MCPS Course	DE9072	High School Credits 072 Weighted		1	Graduation Requirement	
				Credit Type CTE			CTE Credential	
Dual Enrolled	✓ ■ NEW RIVER Community College		NRCC Course Code(s)	EDU200	College Credi	ts	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 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

VIRGINIA TEACHERS FOR TOMORROW II / TEACHER CADET II AHS BHS CHS •		90720	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 Credits Weighted	redits	1	Graduation	
ENTREPRENEURSHIP EDUCATION		Course 90930		Weighted			Requirement			
			Credit Type	СТЕ	CTE Creder CTE Tests(s) Ma Required					
Grade Leve	el	9-12	Prerequisite(s)							
	•		rse introduces stu and techniques for		_	•	•	_		
AHS	•									
BHS	•									
CHS	•									
EMHS	•									
						·				_

and County Page 4		nery County Public			High School C	redits	1	Graduation
		MCPS		Weighted			Requirement	
INTERNSHIP W	INTERNSHIP WORKFOCUS		Course Code	INTERN	Credit Type	WBL Elective		CTE Credential Tests(s) May Be Required
Grade Level	9-12	Prerequisite(s)						

Course Description: High-Quality Work-Based Learning experiences enable students to apply classroom instruction in a real-world business or service-oriented work environment and are available throughout the year. While many students work during the school year, experiences are also available during the summer months. High-Quality Work-Based Learning experiences reinforce Virginia's 5 C's—critical thinking, collaboration, communication, creative thinking, and citizenship—by allowing students to apply these skills in a real-world business or service-oriented work environment.

MCPS offers Work-Based Learning opportunities in accordance with the <u>Virginia Department of Education's CTE High-Quality Work-Based Learning Guide 2023-2024.</u>

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

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

SERVICE LEARNING			98280	High School Credits Weighted		1	Graduation	
		MCPS					Requirement	
		Course Code		Credit Type	Local Elective		CTE Credential Tests(s) May Be Required	
Grade Level	11-12	Prerequisite(s)						

Course Description: Service-learning experiences enable students to learn and apply academic, social, and personal skills to improve the community, continue individual growth, and develop a lifelong ethic of service. Service learning goes beyond students participating in community service. Students identify an interest and a community need, students develop and complete a service project addressing the community need, students complete structured activities before, during, and after the experience, students reflect and self-assess.

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

			High School C	Credits	1	Graduation
INTRODUCTION TO EDUCATION FOR	MCPS		Weighted			Requirement
EMPLOYMENT	Course 90780					CTE Credential
EIVIPLOTIVIEIVI	Code		Credit Type	CTE		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	
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	redits	1	Graduation Requirement
EDUCATION FOR EMPLOYMENT		YMENT	Course 9083 Code	90850	Credit Type	СТЕ		CTE Credential Tests(s) May Be Required
Grade Level	9-11	Prerequisite(s)						
Course Description	n: This coul	rse teaches studen	ts to make ir	nformed career	and continuing e	ducation choice	es as	they transition
from school, gain to acquisition, workp							reer-	research, job-
AHS		, ,		-				
BHS				, ,,	to multiple facto			
CHS			tudent interest, availability of certified staff, and/or current resources.					
EMHS		Students interested in this course should see their school counselor.						

		deniery County Public Sci			High School C	Credits	1	Graduation	
STUDENT RES	FΔRCH	action of the second	MCPS		Weighted			Requirement	
PROJECT	LAICH	Certified Work Ready	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	•	

DE DESEAD	DE RESEARCH I			MCPS Course	DE9826	High School Credits Weighted		1	Graduation Requirement	
DE RESEAR	СПІ			Code	DE9826	Credit Type	Local Elective		SOL Test(s) Required	
Dual Enrolled	✓	NE Con	EW RIVER	NRCC Course Code(s)	SCT 198	College Credit	:s	1		
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 <u>pages 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

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

DE DECEADA	DE RESEARCH II			MCPS Course	DE9827	High School C Weighted	High School Credits Weighted		Graduation Requirement	
DE RESEAR	СПП	ı		Code	DE9027	Credit Type	Local Elective		SOL Test(s) Required	
Dual Enrolled	✓	NE Com Co	EW RIVER	NRCC Course Code(s)	SCT 298	College Credi	ts	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 pages 9-11 and 194-196) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

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

		MCPS	MCPS F		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	•	

STUDENT AIDE		MCPS		High School Co	High School Credits			
		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.

			ATO	MCPS		High School C	Credits	1	Graduation	i
AP SEMII	NAR		AP	Course	9099A	Weighted		>	Requirement	1
				Code		Credit Type	Elective			
Grade Leve	el	11-12	Prerequisite(s)			•				
complexition students proviewing sponthesize deliver orathe power	es of aca ractice r eeches, informa I and vis to analy	ademic and reading and broadcasts ation from r sual presen yze and eva	real-world topics I analyzing articles I, and personal acc multiple sources, on tations, both indivious information	and issues s, research s counts; and develop the vidually and with accur	that engages stude by analyzing diver studies, and found experiencing artise for own perspective as part of a team acy and precision purse for students	rgent perspective lational literary stic works and p es in research-b . Ultimately, the in order to craf	ves. Using an ind and philosophic performances. So pased written es e course aims to t and communic	quiry cal te tude says equ	framework, exts; listening to a nts learn to , and design and lip students with evidence-based	and
AHS										
BHS	•					·	·		·	
CHS										
FMHS										

AP RESEARCH			AP ⁿ		9826A	High School C Weighted	redits	1	Graduation Requirement
				Code		Credit Type	Elective		
Grade Leve	el	11-12	Prerequisite(s)	Students	must have succes	sfully completed	d the AP Semina	ır coı	urse.
question. employing Students e work in a p	In this c ethical xplore t oortfolio	ourse, stud research pr heir skill de . The cours	dents design, plan lents further their ractices; and acces evelopment, docur se culminates in a applicable) and a	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 uzing information rate the artifact 1000 words (acco	inderstanding re n as they addres s of the develop	eseai ss a r omer	rch methodology; esearch question. t of their scholarly
		Intonded	f . l l .	~ AD Dasses	rah hut nat aanau	.1 11 1	in DE Dosoarah		
AHS	•		tor ctildente takin			rrantiv anrailaa			
	•	intended	for students takin	g AP Keseai	ren but not concu	rrently enrolled	III DE Research		

DE/AP RESEARCH I		AP:	MCPS Course	DE9826A	High School Credits Weighted		1	Graduation Requirement	✓	
		Code	DL9820A	Credit Type	Science		SOL Test(s)			
				Code		Credit Type	(Chemistry))	Required	
Dual		∧ I	Du (ED	NRCC						
Enrolled	✓		NEW RIVER Community College	Course	SCT 198	College Credit	ts	1		
Enrolled		Cor		Code(s)	Code(s)					
Grade Level		11-12	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 9-11</u> and <u>194-196</u>) in addition to successful completion of prerequisite courses. This course may carry with it a fee to NRCC.

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

DE/AP RESEARCH II		AP:	MCPS Course Code	DE9827A	High School C Weighted	High School Credits Weighted		Graduation Requirement	~	
		2 1			Credit Type	Science (Chemistry)	SOL Test(s) Required		
Dual Enrolled	✓	■ None	EW RIVER	NRCC Course Code(s)	SCT 298	College Credi	ts	1		
Grade Level		11-12	Prerequisite(s)	See Below	v *	•		1		
Course Des	criptio	n: This coບ	ırse combines 982	26A and DES	9827					
AHS										
BHS	•	Intended	ntended for students taking AP Research while concurrently enrolled in their 2 nd year of DE Research							
CHS										
FMHS										

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

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

VIRTUAL VIRGINIA

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

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

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

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

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

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

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

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

INTERVENTION COURSES

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

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

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

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

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

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

English Intervention Classes

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 SUPPLEMENTAL		MCPS Course	15150	High School C Weighted	credits	1	Graduation Requirement		
		L		Code	13130	Credit Type	English Electi	ve	SOL Test(s) Required
Grade Lev	el	9	Prerequisite(s)	None					
they study class read	the ning as we	th-grade cι		ss will emph	asize reading an	d study strategie	es, allowing time	e for	writing skills as sustained silent in- ired with English 9
AHS	•								
BHS	•								

ENGLISH 10 SUPPLEMENTAL		MCPS	15160	High School Credits Weighted			Graduation Requirement	
			Course 15160 - Code	Credit Type	English Electi	SOL Test(s) Required		
Grade Level	10	Prerequisite(s)	English 9					
Course Description	n: This cou	rse emphasizes ba	sic reading a	and writing skills	designed to inc	rease student a	bility	as they study the
tenth-grade currice process will be em This course is paire	phasized to	prepare students	for the Eng	lish 11 writing S				

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

ENGLISH 11			MCPS	15157	High School Credits Weighted		1	Graduation Requirement	
SUPPLEMENTAL			Course Code	15157	Credit Type	English Elective		SOL Test(s) Required	
Grade Level	11	Prerequisite(s)	English 10. Recommended for students at risk of not passing one or both EOC English SOL tests.						

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	•	

ENGLISH 12			MCPS	15158	High School Credits Weighted		1	Graduation Requirement	
SUPPLEMENTAL			Course Code	13136	Credit Type	English Elective		SOL Test(s) Required	
Grade Level	12	Prerequisite(s)	English 11. Recommended for students who did not pass one or both Grade 11 EOC English SOL tests.						

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		

LITERACYLAR			MCPS			High School Credits Weighted		Graduation Requirement	
LITERACY LAB 9			Course Code	15151	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Level	9	Prerequisite(s)	None					-	
Course Description: This course is a stand-alone reading course designed to provide instruction in foundational reading skills to									

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	•	

					High School Credits			Graduation	
LITEDACVIAD	10	0		15152	Weighted			Requirement	
LITERACY LAB	10			15152	Cuadit Tura	5 1: 1 51 ···		SOL Test(s)	
			Code		Credit Type	English Electi	ve	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	•	

				MCDC		High School C	credits	1	Graduation	
LITERACY	ERACY LAB 11	MCPS Course	15155	Weighted			Requirement			
LITERAC	LAD	L.I.		Code	13133	Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Leve	el	11	Prerequisite(s)	None		•				
	_		urse is a stand-alor	_	_				_	
		_	h school courses.			_			•	oing
_	-		guage comprehens	ion skills of (questioning, visi	ualizing, connecti	ng, predicting,	sumr	narizing and	
monitoring AHS	• unders	stanung.								
BHS	•									
CHS	•									
EMHS	•									
		ı								
_						_				
				MCPS		High School C	credits	1	Graduation	
LITERACY	/ I A B 1	12		Course	15156	Weighted	T		Requirement	
				Code		Credit Type	English Electi	ve	SOL Test(s) Required	
Grade Leve	el	12	Prerequisite(s)	None						
support st	udents i	n their hig	urse is a stand-alor h school courses.	nstruction v	will focus on wo	rd recognition ski	ills, phonologica	al aw	areness, develop	
support sto reading flu monitoring	udents i iency, ar	n their hig		nstruction v	will focus on wo	rd recognition ski	ills, phonologica	al aw	areness, develop	
support stureading flumonitoring AHS	udents i iency, ar	n their hig	h school courses. I	nstruction v	will focus on wo	rd recognition ski	ills, phonologica	al aw	areness, develop	
support store reading flumonitoring AHS BHS	udents i ency, ar g unders	n their hig	h school courses. I	nstruction v	will focus on wo	rd recognition ski	ills, phonologica	al aw	areness, develop	
support stureading flumonitoring AHS	udents i ency, ar g unders	n their hig	h school courses. I	nstruction v	will focus on wo	rd recognition ski	ills, phonologica	al aw	areness, develop	
support storeading flumonitoring AHS BHS CHS	udents i ency, ar g unders	n their hig	h school courses. I	nstruction v	will focus on wo	rd recognition ski	ills, phonologica	al aw	areness, develop	
support storeading flumonitoring AHS BHS CHS	udents i ency, ar g unders	n their hig	h school courses. I	nstruction v	will focus on wo	rd recognition ski ualizing, connecti	ills, phonologica	al aw	areness, develop	
support storeading flumonitoring AHS BHS CHS	udents i ency, ar g unders	n their hig	h school courses. I	nstruction v	will focus on wo	rd recognition ski ualizing, connecti	ills, phonologica	al aw	areness, develop narizing and Graduation	
support storeading flumonitoring AHS BHS CHS	udents i	n their hig nd the lang standing.	h school courses. I	Instruction vion skills of	will focus on wo	rd recognition ski ualizing, connecti	ills, phonologica	al aw	areness, developmarizing and Graduation Requirement	
support sti reading flu monitoring AHS BHS CHS EMHS	udents i	n their hig nd the lang standing.	h school courses. I	Instruction vion skills of o	will focus on wor	rd recognition ski ualizing, connecti	ills, phonologica	al aw sumr	Graduation Requirement SOL Test(s)	
support str reading flu monitoring AHS BHS CHS EMHS	udents in ency, are unders	n their hig nd the lang standing.	h school courses. I	MCPS Course	will focus on wor	rd recognition ski ualizing, connecti High School C Weighted	ills, phonologicang, predicting, s	al aw sumr	areness, developmarizing and Graduation Requirement	
support sti reading flu monitoring AHS BHS CHS EMHS	udents in ency, are gunders output o	n their hig nd the lang standing.	h school courses. I	MCPS Course Code	will focus on word questioning, visual graphs of the second secon	High School C Weighted Credit Type	ills, phonologicang, predicting, s	al aw	Graduation Requirement SOL Test(s) Required	
support sti reading flu monitoring AHS BHS CHS EMHS	udents in lency, and grand unders	n their higher h	h school courses. I guage comprehens Prerequisite(s)	MCPS Course Code	will focus on word questioning, vision word with the provide each stude will be will b	High School C Weighted Credit Type	ills, phonologicang, predicting, some predicting, some predicting, some prediction in specific leading to the product of the second sec	al aw summ	Graduation Requirement SOL Test(s) Required	Ding
support sti reading flu monitoring AHS BHS CHS EMHS LEARNIN Grade Leve Course Despersonalize an opportu	udents in ency, are underson of the ency, ar	n their high and the langstanding. ATEGIES n: This eleept curricular practice and the langstanding.	Prerequisite(s) ctive course is structum, and independent	MCPS Course Code ctured to proent learning of Pathway L	will focus on word questioning, vision questio	High School C Weighted Credit Type ent with instruction The objectives of the second content to the content to	Credits Local Elective on in specific lead the course/s will eir academic su	1 1 ure urining the succession of the succession	Graduation Requirement SOL Test(s) Required g strategies, a to provide stude s. They also win	Ding
support sti reading flu monitoring AHS BHS CHS EMHS LEARNIN Grade Leve course Des personalize an opportu be provide	udents in ency, are gunders unders u	n their high and the langstanding. ATEGIES n: This element curricular practice and portunity	Prerequisite(s) ctive course is structum, and independent apply a variety of to explore, practice	MCPS Course Code ctured to proent learning of Pathway Le, and apply	will focus on word questioning, vision question que question question question question question question question question question que question que	High School C Weighted Credit Type ent with instruction The objectives of the objective	Credits Local Elective the course/s witer academic sufference to the course of the co	al aw sumr	Graduation Requirement SOL Test(s) Required g strategies, a to provide stude s. They also windemic skills.	Ding Ping Ping Ping Ping Ping Ping Ping P
support stire reading flumonitoring AHS BHS CHS EMHS LEARNIN Grade Level Course Despersonalize an opportube provide Students et al. (2016)	udents in ency, are gunders unders u	n their high and the langstanding. ATEGIES n: This element curricular practice and portunity	Prerequisite(s) ctive course is structum, and independent	MCPS Course Code ctured to proent learning of Pathway Le, and apply	will focus on word questioning, vision question que question question question question question question question question question que question que	High School C Weighted Credit Type ent with instruction The objectives of the objective	Credits Local Elective the course/s witer academic sufference to the course of the co	al aw sumr	Graduation Requirement SOL Test(s) Required g strategies, a to provide stude s. They also windemic skills.	Ding Ping Ping Ping Ping Ping Ping Ping P
support sti reading flu monitoring AHS BHS CHS EMHS	udents in ency, are gunders unders u	n their high and the langstanding. ATEGIES n: This element curricular practice and portunity	Prerequisite(s) ctive course is structum, and independent apply a variety of to explore, practice	MCPS Course Code ctured to proent learning of Pathway Le, and apply	will focus on word questioning, vision question que question question question question question question question question question que question que	High School C Weighted Credit Type ent with instruction The objectives of the objective	Credits Local Elective the course/s witer academic sufference to the course of the co	al aw sumr	Graduation Requirement SOL Test(s) Required g strategies, a to provide stude s. They also windemic skills.	Ding Ping Ping Ping Ping Ping Ping Ping P
support sti reading flu monitoring AHS BHS CHS EMHS	udents in ency, are gunders unders u	n their high and the langstanding. ATEGIES n: This element curricular practice and portunity	Prerequisite(s) ctive course is structum, and independent apply a variety of the existing will be assigned.	MCPS Course Code ctured to protent learning of Pathway Le, and apply of grades ac	will focus on word questioning, visual questio	High School C Weighted Credit Type ent with instruction The objectives of the objectives of the objectives of the objectives to some of the objective of the o	Tredits Local Elective the course/s with eir academic suiter grade. This course, including	al aw sumr	Graduation Requirement SOL Test(s) Required g strategies, a to provide stude s. They also will demic skills. may be repeate	Ding Ping Ping Ping Ping Ping Ping Ping P
support sti reading flu monitoring AHS BHS CHS EMHS	udents in ency, are gunders unders u	n their high and the langstanding. ATEGIES n: This element curricular practice and portunity	Prerequisite(s) ctive course is structum, and independent apply a variety of to explore, practice irse will be assigned the historical structure.	MCPS Course Code ctured to protent learning of Pathway Learning of Pathway Learning and apply and grades according to the course of the cours	will focus on word questioning, visual questio	High School C Weighted Credit Type ent with instruction The objectives of the objective of the obje	ills, phonologicang, predicting, sing, predicting, single	al aw sumr	Graduation Requirement SOL Test(s) Required g strategies, a to provide stude s. They also will demic skills. may be repeate	Ding Ping Ping Ping Ping Ping Ping Ping P

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			MCPS		High School Credits		1	Graduation	
EDECLINAAN	FRESHMAN SEMINAR			98285	Weighted			Requirement	
FRESHIVIAN SEIVIINAR			Course Code		Credit Type	Local Electiv	'e	SOL Test(s) Required	
Grade Level		Prerequisite(s)							
Course Descrip	tion: Freshmo	an Seminar is a clas	ss develope	d for all ninth gra	ders to help pro	vide a positive a	and s	uccessful transiti	ion
to high school.	Students will	develop positive co	onnections,	nnections, interpersonal skills, team leadership negotiations, organizatio					
problem solvin	and study sk	tills. The goal of Fr	eshman Ser	hman Seminar is to build a strong foundation for success in high school.					
AHS			Not arres	utly offered due t	to multiple forth	ove including			
BHS		historical st		ntly offered due t est, availability o			roso	urcas	
CHS								rarces.	
EMHS		Stude	ents interested in this course should see their school counselor.						

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	1ENTA	ITAL Code Credit Type Math Flective SOL Test				SOL Test(s)					
		1		-		Required					
Grade Leve	el	9	Prerequisite(s)								
study of Al prerequisit	Course Description: This course is for entering ninth-grade students who need to strengthen their math skills as they begin their study of Algebra. Using assessment and intervention strategies, this course will provide instruction and targeted support on prerequisite and current math concepts and skills. This course is paired with Algebra I, Part 1 in a year-long block format. Students who successfully complete Algebra I, Part 1 will take Algebra I, Part 2 the following school year.							ſ			
AHS	•		ing school year O	•	lgebra I, Part 1 ma ester I course the		•		• ,		
внѕ	•	Students who successfully complete Algebra I, Part 1 will take Algebra I, Part 2 as a Semester I course the following school year which may be followed by AFDA in Semester II.									
CHS	•		ing school year O	-	•	Part 1 may take Algebra I, Part 2 as a year-long (45-min) cour ourse the following school year which may be followed by AFE					
EMHS	•		-	-	lgebra I, Part 1 wil llowed by AFDA ir	_	Part 2 as a Sem	este	er I course the		

ALGEBRA	ΑI			MCPS	31310	High School C Weighted	redits	1	Graduation Requirement	✓
PART 1			Course 313	21210	Credit Type	Math Electiv	/e	SOL Test(s) Required		
Grade Lev	rel .	9	Prerequisite(s)							
	-		urse is the first of a		-					
to develop	o, unders o-course	tand, and sequence	apply the concepts . To earn a Math co	s and skills of	Algebra I. Th	e complete Algebi	ra I curriculum i	s tau	ght over the spa	n
to develop of the two	o, unders o-course	tand, and sequence	apply the concepts . To earn a Math co	s and skills of	Algebra I. Th	e complete Algebi	ra I curriculum i	s tau	ght over the spa	n
to develop of the two Part 2 of t	o, unders o-course	tand, and sequence	apply the concepts . To earn a Math co	s and skills of	Algebra I. Th	e complete Algebi	ra I curriculum i	s tau	ght over the spa	n
to develop of the two Part 2 of t AHS	o, underso-course : the two-course	tand, and sequence	apply the concepts . To earn a Math co	s and skills of	Algebra I. Th	e complete Algebi	ra I curriculum i	s tau	ght over the spa	n

			MCPS		High School C	credits	1	Graduation	✓
ALGEBRA I			Course	31320	Weighted			Requirement	
PART 2			Code	31320	Credit Type	Math		SOL Test(s)	✓
			-		5. 5d5 . 7 p 5			Required	
Grade Level	9-10	Prerequisite(s)							

Course Description: This course is the second of a two-course sequence designed to provide additional instructional time for students to develop, understand, and apply the concepts and skills of Algebra I. The complete Algebra I curriculum is taught over the span of the two-course sequence. Algebra I Part 2 includes a review of the Algebra I Part 1 content. To earn a Math credit that fulfills graduation requirements, students must successfully complete Part 2 of the two-course sequence.

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

					High School Credits			Graduation	
GEOMETRY				31440	Weighted			Requirement	
PART 1			Course Code	31440	Credit Type Math Electiv		10	SOL Test(s)	
			Couc		Credit Type	IVIALII LIECUV	<i>'</i> E	Required	
Grade Level	9-10	Prerequisite(s)			•	•			

Course Description: This course is the first of a two-course sequence designed to provide additional instructional time for students to develop, understand, and apply the concepts and skills of Geometry. The complete Geometry curriculum is taught over the span of the two-course sequence. **To earn a Math credit that fulfills graduation requirements, students must successfully complete Part 2 of the two-course sequence.**

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

			MCPS H		High School Credits			Graduation	_/
GEOMETRY			_	31450	Weighted			Requirement	
PART 2			Course Code	31450	Credit Type	Math		SOL Test(s)	√
			554.5		Credit Type	Width		Required	
Grade Level	9-10	Prerequisite(s)							

Course Description: This course is the second of a two-course sequence designed to provide additional instructional time for students to develop, understand, and apply the concepts and skills of Geometry. The complete Geometry curriculum is taught over the span of the two-course sequence. Geometry Part 2 includes a review of the Geometry Part 1 content. **To earn a Math credit that fulfills graduation requirements, students must successfully complete Part 2 of the two-course sequence.**

AHS	•	
BHS	•	
CHS	•	
EMHS	•	

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	
ENGLISH 10	PA1140	Same as 11400 except the course is taught through Project AIM. One English Credit	CHS
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	ALIC
ALGEBRA II	PA3135	Same as 31350 except the course is taught through Project AIM. One Math Credit	AHS
GEOMETRY	PA3143	Same as 31430 except the course is taught through Project AIM One Math Credit	

EARTH SCIENCE	PA4210	Same as 42100 except the course is taught through Project AIM. One Earth Science Credit			
BIOLOGY I	PA4310	Same as 43100 except the course is taught through Project AIM. One Biology Credit	BHS		
BIOLOGY II ECOLOGY	PA4340	Same as 43400 except the course is taught through Project AIM. One Biology Credit			
HEALTH & PHYSICAL EDUCATION 9	PA7300	Same as 73000 except the course is taught through Project AIM. One HPE Credit	Any Teacher Certified in HPE		
HEALTH & PHYSICAL EDUCATION 10	PA7410	Same as 74050 except the course is taught through Project AIM and does not include Driver's Education. One HPE Credit	at Student's Home School		
INTRO TO FINE ARTS	Same as 91980 except the course is taught through PA9198 Project AIM. One Credit		MONT CENTRAL		
ECONOMICS & PERSONAL FINANCE	PA6120	Same as 61200 except the course is taught through Project AIM One Credit	AHS		
WORD PROCESSING	PA6625	Same as 66250 except the course is taught through Project AIM. One CTE Credit	Any Teacher Certified in Word Processing at Student's Home School		

SPECIAL EDUCATION COURSES

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

FUNCTIONAL ENGLISH 9		MCPS Course Code	78710	High School Credits Weighted		1	Graduation Requirement			
				Credit Type	Elective		SOL Test(s) Required			
Grade Leve	el	9	Prerequisite(s)	None						
			nce-based English, Education Plan.	/Language /	Arts program emp	ohasizing essenti	al reading, writ	ing,	and speaking skill	ls
AHS	•									
BHS	•									
CHS	•									
EMHS	•									•

FUNCTIONAL ENGLISH 10		MCPS	78711	High School Credits Weighted		1	Graduation		
		Course Code					Requirement		
				Credit Type	Elective		SOL Test(s) Required		
Grade Le	/el	10	Prerequisite(s)	None					
	-		nce-based English, ducation Plan.	/Language A	arts program en	nphasizing essentia	al reading, writ	ting,	and speaking skills
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

			MCPS Course Code	78712	High School Credits Weighted		1	Graduation Requirement	
FUNCTIONAL ENGLISH 11		Credit Type			Elective		SOL Test(s) Required		
Grade Lev	vel	11	Prerequisite(s)	None					
	-		nce-based English Education Plan.	/Language Ai	rts program er	nphasizing essenti	al reading, writ	ting,	and speaking skills
AHS	•								
BHS	•								
CHS	•								
EMHS	•								

				146D6		High School C	redits	1	Graduation	
ELINICTIO	NIAI E	NCHEL 1	2	MCPS Course	78713	Weighted			Requirement	
FUNCTIO	FUNCTIONAL ENGLISH 12			0 1	Credit Type	Elective		SOL Test(s) Required		
Grade Leve	vel 12 Prerequisite(s) None									
			nce-based English Education Plan.	/Language	Arts program en	nphasizing essenti	al reading, writ	ing,	and speaking ski	ills
AHS	•									
BHS	•									Ī
CHS	•							•		
EMHS	•								`	

FUNCTIO	FUNCTIONAL MATH 9		MCPS Weighted	High School Cre Weighted	edits	1	Graduation Requirement		
FUNCTIONAL MATH 9		Course Code	78720	Credit Type	Elective	SOL Te	SOL Test(s) Required		
Grade Level 9 Prerequisite(s) None									
Course Des	•		•	rogram emp	hasizing essent	ial consumer, daily	/ living, and fu	nctio	onal skills and
AHS	•								
BHS	•								
CHS	•								
EMHS	•				•				

ELINCTIO	FUNCTIONAL MATH 10			MCPS Course	78721	High School C Weighted	redits	1	Graduation Requirement
		Code	Credit Type	Elective		SOL Test(s) Required			
Grade Leve	el	10	Prerequisite(s)	None					
	•	n: A releva ⁄idual Educa	nce-based Math p ation Plan.	rogram em	phasizing essentia	al consumer, dai	ly living, and fu	nctio	onal skills and
AHS	•								
BHS	•								
CHS	•								
EMHS	•				•				

FUNCTIONAL MATH 11			MCPS Course	78722	High School Cre Weighted	edits	1	Graduation Requirement SOL Test(s) Required	
			Code	78722	Credit Type	Elective			
Grade Level 11 Prerequisite(s) None				None					
	-	n: A releva vidual Educ	•	rogram empł	nasizing essen	tial consumer, daily	living, and fu	nctio	onal skills and
	•								
AHS	•								
AHS BHS	•								
	•								

						High School C	redits	1	Graduation	
ELINICTIO	FUNCTIONAL MATH 12			MCPS Course	78723	Weighted			Requirement	
FUNCTIO	VINAL IV	MAIN 12		Code	76723	Credit Type Elective			SOL Test(s) Required	
Grade Leve	el	12	Prerequisite(s)	None						
	-	n: A releva <i>r</i> idual Educa	nce-based Math p ation Plan.	rogram em	phasizing essentia	al consumer, dai	ly living, and fu	nctio	onal skills and	
AHS	•									
BHS	•									
CHS	•									
EMHS	•							•		

		MCPS	MCPS High School Credits	edits	1	Graduation Requirement			
FUNCTIONAL SCIENCE			Course	78220	Weighted				
			Code	Credit Type	Elective		SOL Test(s) Required		
Grade Level 9-12 Prerequisite(s) None									
	-			course empl	nasizing basic	concepts from Life,	Physical and	Eartl	Sciences and
driven by	tne indi	vidual Educ	ation Plan.						r serences and
driven by t	•	vidual Educ	ation Plan.						1 Sciences and
	•	vidual Educ	ation Plan.						T Sciences and
AHS	• •	vidual Educ	ation Plan.						1 Sciences and

ELINICTIO	FUNCTIONAL SOCIAL STUDIES			MCPS Course	78230	High School Cr Weighted	edits	1	Graduation Requirement
			Code	76230	Credit Type	Elective		SOL Test(s) Required	
Grade Leve	el	9-12	Prerequisite(s)	None					
	-		nce-based Social S the Individual Educ		se emphasizing b	pasic concepts of o	citizenship, co	mmı	unity, and
AHS	•								
BHS	•							,	
CHS	•							,	
EMHS	•		_	•		_			_

				MACDC		High School C	redits	1	Graduation
DEDCON	PERSONAL LIVING & FINANCE		MCPS	21200	Weighted		Requirement		
PERSONAL LIVING & FINANCE		Course 31200 Code	Credit Type	Elective		SOL Test(s) Required			
Grade Lev	⁄el	9-12	Prerequisite(s)	None					
Course De	escriptio	n: This cou	rse is only offered	at Montgo	mery Central				
AHS	•								
BHS	•								
CHS	•							,	
EMHS	•		•			•			•

			MCDC		High School C	Credits	1	Graduation	
ADAPTIVE PE	DE		MCPS Course	77000	Weighted			Requirement	
ADAPTIVE PE			Code	77000	Credit Type	Elective		SOL Test(s) Required	
Grade Level 9-12 Prerequisite(s)			Doctor or	Special Education	Recommendat	ion			

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			MCDC		High School C	redits	1	Graduation	
		MCPS Course	78960	Weighted			Requirement		
	& FAMILY STUDIES I / DEVELOPMENT		Code	76300	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 Course 78961 Code	79061	High School Cr Weighted	High School Credits Weighted		Graduation Requirement	
DEVELOPMENT		Credit Type		Elective		SOL Test(s) Required			
Grade Leve	el	9-12	Prerequisite(s)	None					
	-		ation of 82220. I <mark>T OR VOCATION</mark>	AL TESTING.					
AHS	•								
BHS	•								
CHS	•							•	
EMHS	•		_						

		MCPS Course Code 78580	70500	High School C	High School Credits		Graduation			
COMMUNITY BASED INSTRUCTION				Weighted			Requirement			
CONTINUON T BASED INSTRUCTION			Credit Type	Elective		SOL Test(s) Required				
Grade Leve	el	9-12	Prerequisite(s)	None						
transporta	tion, lib	raries, store	e which provides s es, recreation facil dit attempted in s	ities) and b	asic vocational a	nd job skills.		1630	ources (iike	
AHS	•									
BHS	•									
CHS	•				·	·	·		·	
EMHS	•									

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL I		MCPS		High School Credits 1 Weighted		1	Graduation		
		Course	57100				Requirement	l	
		Code	3/100	Cuadit Tura	Credit Type \Morld Langua	~ ^	SOL Test(s)		
		Code		Credit Type	World Language		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	•	

ESL II		MCPS	High School Credits		1	Graduation			
		_	57200	Weighted			Requirement		
		Course 57200	Condit Town		~^	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	•	

			MCDC		High School C	redits	1	Graduation	
ESL III		MCPS Course	57300	Weighted			Requirement		
			Credit Type	World Language		SOL Test(s)			
			Code	Credit Typ		World Language		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	•	

ESL IV		MCPS I		High School Credits		1	Graduation		
		_	57310 Wei	Weighted			Requirement		
			Cuadit Tuna	World Langua	~~	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:					
uest that the action(s) indicated belo	ow be taken fo	Final	OMIT the course from	KEEP the course on	n middle school:
Course Name	Taken	Course Grade	my child's high school transcript	my child's high school transcript	
			transcript	transcript	Please Note: Once a course has been omitted from a transcript, t 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.
		<u> </u>			
Parent/Guardian Signature		Date			Revised 9/2



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 #: E	Email:	
Please provide the following information:		
Official Title of Course (and Course Number)	Previously Taken:	
School Year Course Taken: Start	Date of Course:E	nd Date of Course:
Where was this course taken (School Name, I	External Organization Name)?	
Format of Course (i.e. In-Person, Online):	Grade Earn	ed:
Did you complete the entire course? I	lf not, please explain why yoເ	ı did not complete the course:
Please state clearly your reason for requesti	ng to retake this course for G	irade Replacement:
Official Title of Course (and Course Number)	Requesting to Retake for Gr	ade Replacement:
By signing below, we understand and agree to the Policy 6-6.2. We also acknowledge that MCPS of understanding of the drop period and the consequence acknowledges the following:	cannot guarantee the availability of	the desired course, the
 A commitment to completing the course and their transcript and to accept the final grade in their GPA. 		
 An understanding that no additional credit was previously earned, and that Virgin for which a student has received prior credit 	nia High School League (VHSL) ru	les 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 bee	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 Secondar	y Education				
Once the established drop window has passed, the original course grad the transcript (the original course must remain listed on the transcript)	le is changed to "NG" on				
Upon completion of the retake course, the retake course and the final le for the retake course will be on student's transcript	etter grade (A-F) earned				

Table of Contents

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)

Student Name:		Possible	Points Awarded (Circle a number for each row)							
		Points								
	(10		No	Below Average	Average	Above Average	Excellent			
	Works independently to problem solve	12	0	3	6	9	12			
=	Generates own ideas from given project guidelines	8	0	2	4	6	8			
atio	Independently experiments with ideas	7	0	1	3	5	7			
end	Independently experiments with techniques	7	0	1	3	5	7			
E	Challenges self with goals for class projects	8	0	2	4	6	8			
eco	Committed to completing quality work	8	0	2	4	6	8			
er R	Focus on work in class	7	0	1	3	5	7			
ach	Overall maturity	7	0	1	3	5	7			
I Te	Readily accepts difficulties as challenges to overcome	7	0	1	3	5	7			
hoo	Readily accepts challenges to work in a variety of media	7	0	1	3	5	7			
e Sc	Ability to handle criticism of work maturely and productively	6	0	1	2	4	6			
Middle School Teacher Recommendation	"Coachable": listens to and applies teacher advice/criticism	6	0	1	2	4	6			
Σ	Asks for help when appropriate	6	0	1	2	4	6			
	Ability to provide helpful criticism and/or discussion in group critique settings	4	0	1	2	3	4			
Ability to provide helpful criticism and/or discussion in group critique settings 4 0 1 2 3 4 TOTAL NUMBER OF POINTS RECEIVED										

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	
Mindale 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)

Stude			Points Awarded (Circle a number for each row)								
Staa	ent rune.	(300)	No	Below Average	Average	Above Average	Excellent				
	Understanding of and ability to describe contour.	30	0	7	14	21	30				
We	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				
High School Teacher Portfolio Review	Understanding of and ability to describe perspective.	27	0	6	13	20	27				
Portf	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				
gh Sc	Understanding of and ability to utilize the principles of design.	21	0	5	10	15	21				
Hig	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** Courses (except Math and CHM 111)	Current cumulative high school GPA of 3.0 or higher	or	ERW score of 480 or higher	or	ERW score of 390 or higher	or	18 or higher on both English and Writing subject area tests	or	Placement into ENG 111
Career and Technical*** Courses (except Math)	Current cumulative high school GPA of 2.0 or higher.	or	ERW score of 480 or higher	or	ERW score of 390 or higher	or	18 or higher on both English and Writing subject area tests	or	Placement into ENF 1 or higher

^{*} 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		ACT		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/AP FNGLISH 11 COLLEGE COMPOSITION	ENG 111 ENG 112	•	•	•	•
DE1600B	DE ENGLISH 12 COLLEGE COMPOSITION	ENG 111 ENG 112		•	•	
DE1601A	DE/AP ENGLISH 12 LITERATURE & COMPOSITION	ENG 245 ENG 225	•	•	•	•

DE2951A	DE/AP U.S. HISTORY	HIS 121 HIS 122	•	•	•	•
DE2950A	DE/AP U.S. GOVERNMENT	PLS 135 PLS 136			•	•
DE4700A	DE/AP BIOLOGY	BIO 101 BIO 102			•	•
DE4330	DE HUMAN ANATOMY / PHYSIOLOGY	BIO 141 BIO 142	•	•	•	•
DE43201	DE BIOTECHNOLOGY	BIO 253			•	
DE4410A	DE/AP CHEMISTRY	CHM 111 CHM 112		•		
DE4510	DE/AP PHYSICS	PHY 201 PHY 202	•		•	
DE3162A	DE/AP PRECALCULUS w/TRIGONOMETRY	MTH 167	•	•	•	•
DE31998	DE APPLIED CALCULUS I	MTH 261	•	•	•	•
DE31999	DE APPLIED CALCULUS II	MTH 262	•	•	•	•
DE31995	DE/AP CALCULUS I (AB)	MTH 263	•	•	•	•
DE31996	DE/AP CALCULUS II (BC)	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	•	•	•	•
DE2900A	DE/AP PSYCHOLOGY	PSY 200		•		
DE2212A	DE/AP HUMAN GEOGRAPHY	GEO 210 GEO 220		•	•	•
DE6612	DE COMPUTER INFORMATION SYSTEMS	ITE 152	•	•	•	
DE6640V	DE COMPUTER SCIENCE PROGRAMMING 1 VIRTUAL	CSC 221	•	•	•	•
DE6641V	DE COMPUTER SCIENCE PROGRAMMING 2 VIRTUAL	CSC 222	•	•	•	•
DE6642V	DE COMPUTER SCIENCE PROGRAMMING 3 VIRTUAL	CSC 223	•	•	•	•

Non-Transferrable Courses

MCPS Course	MCPS Course Name	NRCC Course	AHS	BHS	CHS	EMHS
DE8531	DE ENGINEERING DESIGN GRAPHICS (Drafting II)	CAD 151		•		
DE8532	DE CIVIL ENGINEERING & ARCHITECTURAL DESIGN GRAPHICS (Drafting III)	CAD 111		•		
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	•	•	•	
DE8286	DE EARLY CHILDHOOD EDUCATION II Note: This course is eligible for transfer but is primarily considered a non-transferable course.	CHD 118 CHD 120		•	•	
DE8383	DE MEDICAL TERMINOLOGY	HIM 101 HIM 103	•	•	•	•
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			•	
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	•	•	•		
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DE Special Circumstance Criteria & Forms for 9th or 10th Graders

Table of Contents

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 <u>pages 196-199</u> 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.	√	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)		
	High School Course	NRCC Course(s)
Courses		
Courses		

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 Dual Enrollment	Date	
Dean (as Dual Enrollment 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.

	School: Current Grade:
Parent/Guardian Name and Addre	ess:
Phone Number:	Email Address:
Number of Credits from Institution Institution Providing Instruction:	n Providing Instruction for Requested Course(s):
School Year: Start Date	e for Course(s): End Date for Course(s):
	u want to take the external course(s) requested, AND indicate if you on your MCPS transcript for this/these course(s):
	rom the institution providing instruction MUST be attached.
	e by the regulations outlined in MCPS Policy 7-2.4. Failure to abide deadlines will result in the negation of this agreement and failure to be made by MCPS administration.
Student Signature:	Date:
	Date:
School-Level Approvals (Please sign	n to indicate approval):
External Courses Previously Taken:	
External Courses Freviously Taken.	
School Counselor: School Administrator:	Date: Date:
School Counselor: School Administrator: Approved to take course(s) for _ Approved to take course(s) for _ Approved to take course; howe	Date:
School Counselor: School Administrator: Approved to take course(s) for _ Approved to take course(s) for _ Approved to take course; hower Denied – Reason:	Date: college credit(s) and high school credit(s) high school credit(s) only (as requested) ver, does <u>not</u> meet the criteria to be awarded <u>high school</u> credit
School Counselor: School Administrator: Approved to take course(s) for _ Approved to take course(s) for _ Approved to take course; hower Denied – Reason: Director of Secondary Education: _	Date: college credit(s) and high school credit(s) high school credit(s) only (as requested) ver, does <u>not</u> meet the criteria to be awarded <u>high school</u> credit

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 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>
- A student seeking an <u>advanced studies diploma</u> may take no more than one (1) external course for high school credit in a core curriculum area.

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

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

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

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

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

will determine the number of high school credits, if any, that will be awarded for an external course in accordance with this policy.

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

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

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

Course Credit for Internal On-line Courses

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

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

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



Montgomery County Public Schools Application for Early Graduation

Student's Name:		_ School:	Current Grade:
Parent/Guardian Name and Address:			
Phone Number:			
When do you plan to graduate?			
 □ At the completion of my junior yea □ At the end of 1st 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 St	andard	
Attach a letter out Be sure to include your post-graduat	<mark>lining why you wou</mark> te plans. (e.g. early e		-
 Total Course Credits Complet Total Course Credits Still to be Courses Still Needed (list):	e Earned:		
 Has the CTE Certification requ Plan to Complete the Above F 			if needed):
I have read and understand the above	e requirements for Ea	rly Graduation.	
			te:
Parent/Guardian Signature:		Da	te:
School-Level Approvals (Please sign to	o indicate approval):		
School Counselor:			Date:
School Administrator:			Date:
☐ Approved ☐ Denied – Reason:			
Director of Secondary Education:			Date:
Letter sent to parent/guardian	dont's cumulativa fila	Date:	

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

Information Technology: Information Support and Services

66120 Computer Information Systems
66130 Advanced Computer Information Systems, DE

Information Technology: Web and Digital Communications

66300 Design, Multimedia, and Web Technologies
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>

2.	Stude	nts r	must	selec	t from	<u>AT</u>	LEAST	<u>. 3</u> c	of t	he 1	fol	lowii	ng	opti	ions	S
----	-------	-------	------	-------	--------	-----------	--------------	--------------	------	------	-----	-------	----	------	------	---

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



MCPS COURSES by CAREER CLUSTER

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

What are the 16 Career Clusters?

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

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



Agriculture, Food and Natural Resources

Do you like working outside?
Do you like to work on engines?
Do you have a green thumb?
Do you love working with animals?

Do you love working with animals? Is protecting the environment one of you	our passions?			
High School Elective Courses to Consider Taking	 Agricultural Mechanics & Basic Animal Science Applied Physics/Principles of Technology I, II Bioethics Biology, AP, DE Biotechnology Botany/Zoology Chemistry I, II, AP Ecology Entrepreneurship Education Environmental Science, AP Equine Management & Production Fisheries & Wildlife Management Floral Design I Floriculture Foundations of Agriculture, Food, & Natural Resources Genetics 	 Greenhouse Plant Production & Management Horticulture Science & Practices Introduction to Natural Resources Introduction to Plant Systems Landscaping I Landscaping II Meteorology Oceanography Power & Transportation Small Animal Care Small Engine Repair I Small Engines Repair, Advanced Veterinary Science Virginia Teachers for Tomorrow Welding I, II 		
Related Career Clusters	 Government and Public Administration Law, Public Safety, Corrections and Security Science, Technology, Engineering and Mathematics 			
Diploma with Some Training	Certification or Associate Degree	College Degree		
 Aquaculture workers Hazardous Materials Removal workers Refuse & Recycling collectors 	 Water Treatment Operator Wastewater Management System Operator Game Warden 	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 Civil Engineering & Architecture Construction Technology Drafting I, II, III Electricity I, II, III Engineering Design Entrepreneurship Education Environmental Science, AP HVACR I, II Materials & Processes Technology Physics Physics, AP Principles of Engineering Robotics I, II, III Technical Drawing & Design Welding I, II Welding I, II 				
Related Career Clusters	 Science, Technology, Engineering and Mathematics Manufacturing 				
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 	ElectricianHVAC MechanicSurveyor	 Construction Manager Cost Estimator Civil Engineer Architect 			
Highway Maintenance					





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

• (1, 11, 111, 17, 71
 Art/Music Appreciation
• Band
• Caramics I II

Advertising Design I, II

Architectural Drawing & Design

Ceramics I, IIChorus/Vocal Ensembles

Δrt I II III I\/ ΔP

Advanced Acting

Cinema & Photographic Production I,

, DE

- 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

	O1			
Diploma with Some Training	Certification or Associate Degree	College Degree		
 Artist Musician Performer	 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 throu	gh 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 enectively:		
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 Administration	
Diploma with Some Training	Certification or Associate Degree	College Degree
Office ClerksStock ClerksShipping Clerk	 Office Supervisors Payroll Clerk Bookkeeper Postal Clerk Executive Secretary/Assistant Customer Service Rep 	 Operations Manager Management Analyst Human Resource Manager
Local Employment Projections	519 Annual job openings 5% Growth for New River Region through 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 Tourism Human 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 throu	gh 2024





	Finance	
Do you want to use your money wisely? Would you like to help others make bett Do you like working with money and nur Do you have excellent attention to detai Do enjoy tracking financial information?	mbers? I?	
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 AdministrGovernment 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 throu	gh 2024





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





	- Heelth Ceionea	
	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?	w the body works? e?	
High School Elective Courses to Consider Taking	 Advanced PE Anatomy/Physiology Bioethics Biology, AP, DE Biotechnology Chemistry I, II, AP Emergency Medical Technician I Entrepreneurship Education Equine Management & Production Family Relations Fisheries & Wildlife Management Genetics Health Assisting Careers Human Anatomy/Physiology, DE 	 Introduction to Health & Medical Sciences Introduction to Natural Resources Medical Terminology Mental Health Assisting Careers Nutrition & Wellness Psychology Psychology, AP Psychology/Sociology Psychology/Sociology, DE Small Animal Care Veterinary Science Virginia Teachers for Tomorrow
Related Career Clusters	Human ServicesScience, Technology, Engineering and N	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	-L 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?	AccountingAccounting, Advanced	Introduction to Interactive Programming
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 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 Marketing Keyboarding Applications Marketing Marketing Management Marketing, Advanced Office Administration Opportunities in Global Trade Opportunities in Global Trade, Advanced Principles of Business & Marketing Programming, Advanced Speech Fundamentals Sports & Entertainment Marketing Sports & Entertainment Management Virginia Teachers for Tomorrow Word Processing
Related Career Clusters	Human Services	
Diploma with Some Training	Certification or Associate Degree	College Degree
 Restaurant Cook Food Prep and Serving Wait Staff Housekeeping Supervisor Maid/Janitor 	BartenderHotel ClerkEvent Planner	Facility Manager
Local Employment Projections	652 Annual job openings 6% Growth for New River Region through	2024





Human Services		
Do you like to help people solve problem Do you enjoy providing a service to othe Is it important to you to do something th Are you friendly, outgoing, a good listen High School Elective Courses to Consider Taking	rs? nat 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 Virginia Teachers for Tomorrow
Related Career Clusters	Education and Training	
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 Mathematics Transportation, Distribution and Logistics Arts, Audio/Video Technology and Communications 	
Diploma with Some Training	Certification or Associate Degree	College Degree
 IT Assistant Call Center Support Rep Telecommunications Technician Penetration Tester 	 Web Developer IT Support Specialist Field Service IT Technician Digital Marketer Forensic Computer Analyst 	 Software Developer Computer Support Specialist Computer System Analyst IT Security Analyst Security Systems Administrator
Local Employment Projections	43 Annual job openings 13% Growth for New River Region through 2024	





Law, Public Safety, Corrections and Security Are you good at working with people in 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) **Fundamentals** Biotechnology • Keyboarding Applications Business Law • Office Administration • Business Management Psychology • Computer Information Systems **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 • Human Services **Related Career Clusters** Government and Public Administration **Diploma** Certification **College Degree** with Some Training or Associate Degree Lifeguard • Correctional Officer/Jailer Lawyer • Police/Sheriff Officer Probation Officer • Police Supervisor • Detective/Criminal Investigator • Security Guard Legal Assistant 12% Growth for New River Region through 2024 **Local Employment Projections** 136 Annual job openings





	Dan Control	
	Manufacturing	
Do you understand how things work? Do you like moving or handling material Do you like working with tools, machine Do you enjoy seeing the concrete result	ry, and computers?	 Design, Multimedia, & Web Technologies, Advanced
High School Elective Courses to Consider Taking	 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 	 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 Technician Line Supervisor Computer Repair Technician 	Purchasing AgentIndustrial EngineerOperations Manager
Local Employment Projections	490 Annual job openings -1% Growth for New River Region through	h 2024





Marketing		
Do you enjoy providing a service to oth Can you write a good advertisement? Do you like helping people find solution Are you good at persuading people to rare you a creative person? High School Elective Courses to Consider Taking	ers?	 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
	Entrepreneurship EducationFashion Marketing	Sports & Entertainment MarketingWord 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



571 Annual job openings



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 so Do you like working with math and scien		
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, Advanced Cybersecurity Systems Technology Design, Multimedia & Web Technologies Design, Multimedia & Web Technologies, Advanced Drafting I, II, III Drawing & Design, Advanced Agriculture, Food and Natural Resource Architecture and Construction 	 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	Manufacturing Certification	1
with Some Training	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	



Local Employment Projections



Transpo	rtation, Distribution and	Logistics
Do you like working on or operating cars, Do you understand how things work? Do you like moving or handling material, Do you like working with tools, machiner	products, or people?	
High School Elective Courses to Consider Taking	 Accounting Accounting, Advanced Auto Technology I, II, III Computer Information Systems Computer Information Systems, Advanced Entrepreneurship Education Marketing Marketing Management Marketing, Advanced 	 Office Administration Physics Power & Transportation Precision Machining Technology I, II Principles of Business & Marketing Applied Physics/Principles of Technology I, II Small Engine Repair Small Engines Repair, Advanced Welding I, II
Related Career Clusters	Science, Technology, Engineering and MInformation Technology	lathematics
Diploma with Some Training	Certification or Associate Degree	College Degree
 Diesel Engine Specialists Vehicle Cleaners Industrial Truck Operators Delivery Service Drivers Packers 	 Automotive Service Technicians/Mechanics Tractor-Trailer Drivers Bus Drivers Billing Clerks Dispatchers GIS Specialist 	 Municipal Planner Transportation Engineer GIS Analyst Pilot



294 Annual job openings 6% Growth for New River Region through 2024

ACADEMIC & CAREER PLAN (ACP)

Major Clarity		Academic and Career Plan	
Name		School	Student ID
Initiation date		Dates reviewed	
Career assessr / comple		Career goal I would like to pursue a career as a	·
Personality tra	aits	Learning styles	
Selected pathy	way	Selected career cluster	
Secondary Diploma type	Education Goal 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 signat	ure	Guardian signature	Counselor signature

Plan of Study Pathway		Pathway	Cluster		School	
Year	7	8	9	10	11	12
Math	Recommended Courses					
Science	Recommended Courses					
Social Studies	Recommended Courses					
English	Recommended Courses					
Elective	Recommended Courses					
CTE Elective	Recommended Courses					

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

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

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) 750-8120.